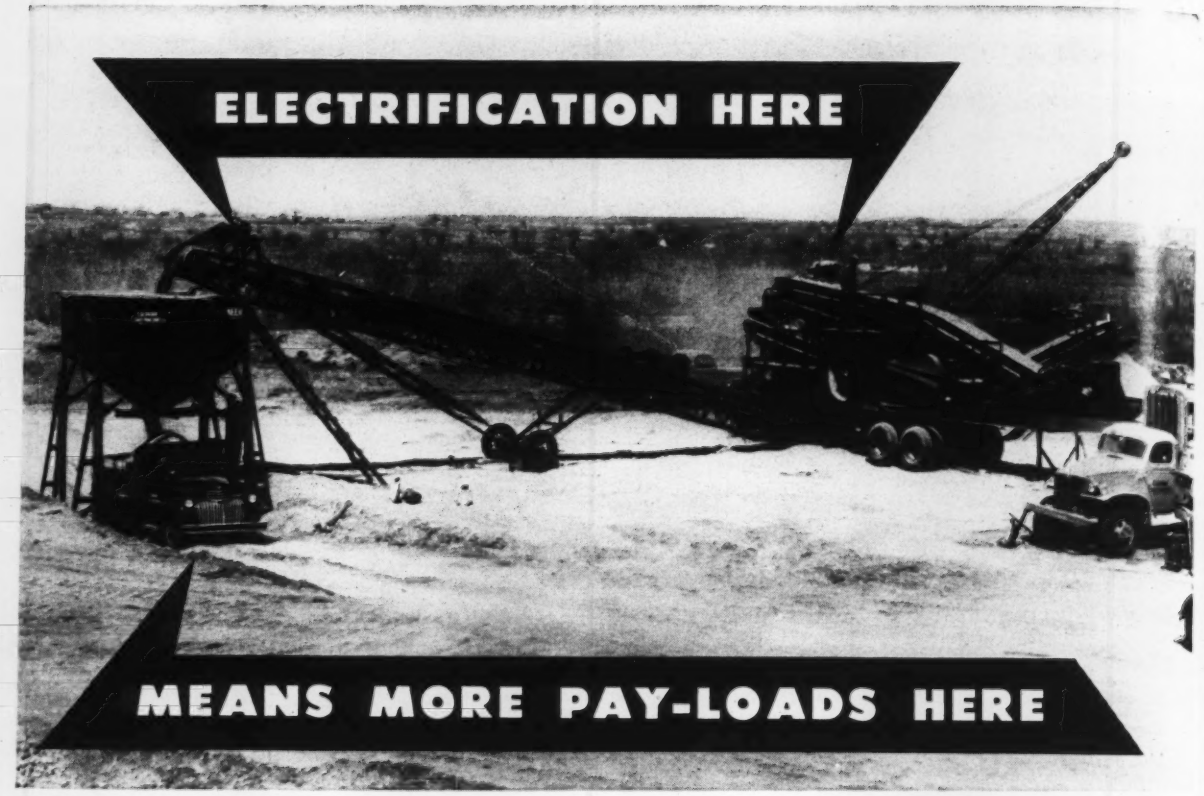
ENGINEERING NEWS-RECORD

Piers for first exclusively highway bridge at Memphis, Tenn., are well advanced

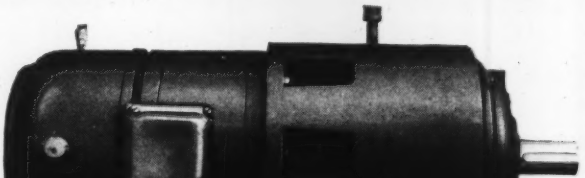


That's What Pioneer Engineering Works Was Shooting For... And Accomplished...In This New Diesel-electric Gravel Plant

Pioneer engineers well know the inherent advantages of electric drives on portable construction equipment. By replacing mechanical-drive belts and clutches with electric gear-motors and control they secured these significant improvements in their new 46-VE crushing, screening and loading plant:

1. **MORE ACCEPTABLE GRAVEL FASTER . . . because of accurate electric control of plant components.**
2. **REDUCED MAINTENANCE COSTS AND FEWER SHUT-DOWNS . . . because fewer mechanical parts and mechanisms are required.**
3. **INCREASED PORTABILITY AND MANEUVERABILITY . . . because over-all width, height and weight are considerably reduced.**
4. **GREATER SAFETY FOR OPERATING PERSONNEL . . . because many belts, pulleys and other extensions are eliminated.**

All of these advancements add up to more acceptable gravel produced in each working day . . . more pay-loads per month. G-E motors and control, properly co-ordinated by G-E engineers, are ready to do a similar job for you on your construction tools or equipment. Why not consult your General Electric representative today and learn how electrification can produce a *better product at lower cost? General Electric Company, Schenectady 5, N. Y.*



G-E totally enclosed gear-motor similar to those used on gravel plant shown above.

G-E full-voltage magnetic motor starter with overload and undervoltage protection, used with above gear-motor.

GENERAL ELECTRIC

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ELECTRIFIED CONSTRUCTION

BETTER PRODUCT • LOWER COST

News of the Week

ENGINEERING NEWS-RECORD • NOVEMBER 7, 1946 • VOLUME 137 • NUMBER 19

Propose $2 billion, ten-year highway plan for California

Report to state legislative committee called one of most comprehensive of its kind—New road classification system planned—Some objections voiced

To meet rapidly mounting needs, an accelerated 10-year highway program for California, calling for a total expenditure of about $2.226,000,000 was recommended in a 144-page comprehensive report delivered to a special committee of the state legislature Oct. 16.

In addition to the greatly increased expenditures, the plan also calls for reclassification of the state highway network with transfer of a large mileage from state supervision to jurisdiction of the cities and counties.

Unusually comprehensive report

The report is described as one of the most comprehensive ever made pertaining to improvement of all of the roads of a state. It was prepared by a special engineering and research staff organized and headed by G. Donald Kennedy, vice president of the Automotive Safety Foundation, who was loaned to the Joint Fact-Finding Committee on Highways, Streets and Bridges of the California legislature.

Publication of the study brought an immediate objection, however, from the Commonwealth Club of California, which charged that insufficient data had been developed.

Preparation of the report has required a year of intensive work and it includes the results of statewide planning studies started as long ago as 1936. Pertinent facts brought out by the study include: (1) California's population—now slightly more than nine million—will increase to 11,100,000 in 1960 and to 14,700,000 by 1980; at the latter date this population is expected to be exceeded by that of only one other state—New York; (2) vehicle registration in California now totals 3,340,000, and will reach 5,250,000 in 1960 and 7,030,000 by 1980; (3) travel on California highways in 1946 is at an all time high of 32 billion vehicle miles yearly, which is 20 percent above the previous top year of 1941, and is expected to climb to 45.8 billion in 1960; (4) in 1945 the death toll on California's highways totaled 3,705, or 15.5 persons per 100,000,000 vehicle miles, which made it the worst accident year in that state's history and far above the national rate of 11.5. The total for 1946 may reach 4,700.

Four steps proposed

To meet these major developments and to improve the state highway system at the desired rate, a far-reaching program of four major steps is recommended.

These steps are: (1) Comprehensive reclassification of highways and streets in California to provide for a more orderly priority of improvement; (2) a greatly accelerated construction and improvement program; (3) comprehensive new state legislation making it possible for all municipalities to establish parking authorities; and (4) actual establishment of parking authorities in all cities of more than 50,000 population.

New program begins in 1949

Because time will be required for enactment of the required legislation and for the necessary administrative preparation, the report recommended that the 10-year accelerated program be started with the 1950 fiscal year, which begins July 1, 1949. Between now and that year the present program of the California State Highway Department—which is expected to result in an annual expenditure of $135,000,000 in 1949—would be followed.

At present, the state of California has 13,886 mi. of state highways, 63,394 mi. of county roads, and 18,273 mi. of city streets, making a grand total of 95,553 mi. With the new highway classification, the present distinction between the 4,510-mi. state primary system and the 9,376 mi. of secondary routes would be abolished. In its place, a new classification, made up of a state expressway system and a state

(*Continued on page* 3)

Highway planning totals $2.4 billion

Plans completed and in the process of completion for future construction of federal aid and state highways account for a total of $2,447,604,000, according to a revised report originally dated June 30 of this year, released last week by the Public Roads Administration.

The figure accounts for more than a third of all plans for public works now projected by state and local governments, announced recently by the Public Works Administration in a tabulation (*ENR*, Oct. 31, vol. p. 561).

Of the highway figure—which also includes highways in national forests and other federal areas—plans are completed for more than $730,000,000 worth of work, and plans are in preparation for more than $1,717,000,000 of work. These figures represent a revision of an earlier PRA report for the June 30 period which was found to be high because it did not at first take account of the necessary deduction from the volume of completed plans of those jobs that had been started and completed when the survey was first made.

In the "plans completed" column, the state of Pennsylvania was far ahead of all others, with $102,195,000 worth of planning ready for use. This state also reported that it had $112,938,000 worth of plans in preparation. New York State, with $77,000,000 worth of work ready to start, was second, and reported it had $167,000,000 worth of plans under way.

The total of plans completed would account for construction of 13,990 miles of road, and the total for plans in process would account for an additional 31,709 miles.

NEWS IN BRIEF

In telegraphic form, here are latest news developments on the engineering and construction front during the week.

Construction—*Charleston, S. C.*, will build a $100,000 airport administration building. . . . Preliminary steps are being taken at *St. Louis, Mo.*, for construction of a $2,000,000 high school and a $5,000,000. 30-acre playground. . . . A 5-year, $37,000,000 construction program has been announced by the Ohio Public Service Co. for the *Cleveland* area. . . . A $10,000,000 expansion program to be completed in 1948 is scheduled at the *Butler, Pa.*, plant of the American Rolling Mill Co. . . . Plans are under way for a $2,250,000 expansion of the S. C. Medical College at *Charleston, S. C.* . . . The Georgia State Department of Welfare plans to construct an $800,000 dormitory and auditorium at *Milledgeville State Hospital*. . . . Officials of the Southern Natural Gas Co., *Birmingham, Ala.* plan to build additional pipelines and other facilities to cost a total that will exceed $8,000,000. . . . A $20,000,000 factory for the manufacture of steam turbines and electric generators will be built at the General Electric's *Schenectady, N. Y.* works, President C. E. Wilson has announced.

Housing—Charles B. Taylor, homebuilder of *Birmingham, Ala.*, has disclosed plans for a 250-unit apartment project, estimated to cost $2,000,000. . . . From 750 to 800 houses will be constructed at *North Bend, Ore.*, in a $5,000,000 housing project by Babbitt & Mercer, Inc., Portland engineers and contractors. . . . The University of Washington, *Seattle*, has announced a $550,000 housing program for 100 faculty members and their families. The 2- and 3-bedroom units will rent for $50 to $60 a month, furnished, with most of the utilities provided.

Highways—Connecticut plans a limited-access divided highway between *East Hartford* and *Glastonbury*, a distance of 4.65 miles, to cost $2,170,000. . . . First contracts for the Calumet Parkway to points south and southwest of *Chicago* have been awarded by *Cook County, Ill.* The super-highway will be completed by the summer of 1948. . . . The Massachusetts Legislature will be asked by Mayor James M. Curley of *Boston* to authorize the extension of the Huntington Avenue Subway to Brookline Village at a cost of $7,000,000. . . . The *Virginia* State Highway Commission has approved allocations of $17,625,281 for its primary road system. . . . The Commissioner of Highways has announced that since the end of the war a total of 21 miles of highways and 19 bridges have been placed under contract in *Vermont*. . . . The Texas Highway Commission has agreed to furnish over $2,900,000 for the vehicles tunnel under the *Houston* ship channel in Harris County. . . . During the current year the *Pennsylvania* Department of Highways has authorized or contracted for approximately $43,150,000 of roads and improvements. . . . Chairman A. H. Graham of the *North Carolina* State Highway and Public Works Commission, has submitted to the State Advisory Budget Commission a request for appropriations of $53,142,001 in 1947-48 and $51,479,065 in 1948-49. The request included a 20 per cent increase in salaries.

Sewers—*Bremerton, Wash.*, has retained the Seattle firm of James W. Carey & Associates to prepare preliminary plans for a $500,000 system of disposal plants and has ordered General Engineering Co. of Seattle to proceed with plans for a $365,000 treatment plant and outfall. . . . Metcalf and Eddy, Boston, Mass., and the engineering firm of the late Thomas T. Hardman, are preparing plans and specifications for a sewage disposal plan and an interceptor sewer system at *Terre Haute, Ind.* Bonds of $2,500,000 for the project are approved. . . . A $1,700,000 sewage treatment plant and an interceptor plant at *Mishawaka, Ind.*, has been approved by the state board of health. . . . The estimated cost of a sewage treatment plant and intercepting sewer system for the *Youngstown, Ohio*, district is estimated at $6,836,700 by Jones & Henry, Toledo, consultants to the city.

Water Supply — Construction has started at *Chickamauga, Ga.*, on a new $225,000 water system. . . . *Rock Hill, S. C.*, will spend $300,000 for enlargement of its waterworks. . . . CPA has approved the construction of an addition costing approximately $450,000 to the municipal filtration plant at *Charlotte, N. C.* J. B. Marshall of Charlotte is consulting engineeer on the project, and bids are expected to be asked around Dec. 1.

Apprentice training reaches all-time peak

The number of apprentices employed in the building trades increased during September to an all-time high of 78,140, according to the Apprentice Training Service of the U. S. Department of Labor. The figure is based on nearly 3,000 field reports.

By trades, the number of apprentices are: woodworking, 30,718; electrical, 12,014; pipe trades, 10,975; trowel trades, 9,215; painting, 6,523; sheetmetal, 4,880; and other trades, 3,823.

Phoenix city workers ask shorter hours, more pay

City officials of Phoenix, Ariz., are facing demands from CIO United Workers Local 723, representing 146 city employees, for a 20-cent hourly increase in pay, 40-hour week, time and a half for overtime, double pay for work on holidays, reclassification of jobs, and free transportation to and from work.

Employees now work 48 hours a week. The city commission may consider the requests at an early session.

THE COVER PICTURE

River piers sunk by open dredging and sealed as pneumatic caissons will carry the first bridge designed exclusively for highway traffic across the Mississippi River at Memphis, Tenn. The combination railroad-highway bridge at left now provides the only road connection between the city and the Arkansas shore of the river.

The structure is being built for the Tennessee and Arkansas highway departments and the Public Roads Administration, for whom Modjeski and Masters, Harrisburg, Pa., are engineers. Merritt-Chapman and Scott Corp., are building the substructure.

Photo by Memphis Commercial Appeal.

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States advance on stream clearing

The elimination of stream pollution last week continued to occupy the news spotlight in three states, as further steps were announced in programs to restore waters to safely usable condition.

The Pennsylvania State Sanitary Water Board approved three Philadelphia sewerage projects as follows: Low level Wissahickon interceptor from Germantown Avenue to Stanton Avenue; Cobbs Creek interceptor from the present terminus at 69th Street to City Avenue; and Mingo Avenue interceptor from Essington Avenue to a point south of Church Creek.

Likewise approved were plans for a substantial part of the enlargement and improvement of the city's Northeast sewage treatment works to permit diversion of sewage to that plant instead of direct to the Delaware River. The capacity will be increased from 60 mgd. to 125 mgd.

Also approved were plans submitted by the city of Easton for the construction of a sewage treatment works at that point.

To eliminate coal silt

The board also reported that about $10,000,000 will be spent by the anthracite industry to eliminate coal silt from the state's waterways.

Sewerage plans in the South

Work is progressing on a $483,000 sewage disposal plant on the Naval Air Station grounds at Pensacola, Fla., expected to be completed within 10 months. Located near Pensacola Bay on a swamp area, when completed the plant will have an operating capacity of 2.3 mgd.

An additional year of designing work will be necessary on the $17,000,000 sanitary sewage system for Miami, Fla., and at a recent meeting of the city's water and sewers board, the group agreed that labor and materials prices are so high that it is doubtful that the work can be completed within original estimates.

After five months of preparation, a complete survey of the sewerage needs of Nashville, Tenn., has been turned over to Warren A. Coolidge, director of public works.

Ten year plan for California roads

(*Continued from page* 1)

trunk line system would be substituted. The expressways would consist of an integrated network totaling about 2,940 mi. and would require improvement of 2,000 mi. of 2-lane roads into 4-lane divided highways. Most of the principal routes now in the state would be incorporated in the trunk line system, which would total 8,545 mi.

However, about 2,500 mi. of roads of predominately local interest would be transferred from the state system to the jurisdiction of the cities and counties, while 66 mi. of city streets would be added to the state system. Approximately 20,000 mi. of the more important roads under county jurisdiction would compose the county primary system with the remaining county mileage designated as other county roads.

City streets under the new classification would be divided into two categories—streets of major importance with a total length of 3,800 mi., and other city streets.

Huge construction program

The expenditure of $209,500,000 recommended for the first year, or fiscal 1950, includes road construction, maintenance, administration, engineering, and the erection of highway department buildings. In the years following 1950, still larger amounts would be spent with a maximum of $242,000,000 in the tenth year. The average for the 10-year period would be nearly $226,000,000.

Of the $209,500,000 total, $111,000,000 is earmarked for the state highway system, $48,500,000 for the county roads and $50,000,000 for the city streets. Expenditures during the remaining years of the program are distributed in much the same proportion.

New construction during the 10-year period to improve the state expressway network would average more than $56,000,000 yearly, while work on the state trunk line system is expected to cost another $34,000,000 annually. The average yearly expenditure for construction on the county system is given as about $31,000,000. Recommended improvements of city streets call for an annual outlay of $36,000,000, including more than $11,000,000 for freeways within the municipalities.

The report was made for a joint fact-finding committee on highways headed by Senator Randolph Collier of the California state legislature. The work was financed by a special legislative appropriation. Senator Collier has already announced that his committee will ask for legislation of the type recommended when the legislature convenes in January.

The report does not discuss the problem of financing the recommended 10-year program. This is being studied by a different committee and a report covering this phase will be made to the legislature Nov. 20.

A limited number of copies of the new report, entitled "Engineering Facts and a Future Program for California Highways," may be obtained from the Automotive Safety Foundation, Hill Building, Washington 6, D. C.

Commonwealth Club objections

Discussion of the Kennedy report before the highway section of the Commonwealth Club of California on Oct. 31 brought forth some strong criticisms. It was claimed that the report failed to develop engineering facts in sufficient detail on which to base drastic modifications of California highway policy.

Illustrating this claim, it was pointed out that the program includes $60,000,000 for an expressway connection between the Bayshore Freeway and the Golden Gate Bridge with no analysis of its necessity or economic justification. For example, such a proposal does not take into account volume of traffic that would use this connection. The state origin-destination count of 1943 shows that only 0.3 percent of the traffic entering the city from the south proceeds across the bridge.

Another of the several shortcomings mentioned was that although the report truthfully states that the Posey Tube connecting the cities of Oakland and Alameda is the most congested 2-lane highway in this country, no specific proposal is made for correcting this situation.

N. Y. Central R.R. plans union station at Toledo

President Gustav Metzman of the New York Central Railroad on Oct. 2 told a committee of city and chamber of commerce officials at Toledo, Ohio, that plans for a new union station there have been under development for some time and that the railroad's directors have voted funds for the work.

R. E. Dougherty, vice-president in charge of development and improvements for the railroad, explained that track rearrangement involved major changes since present repair buildings would have to be removed and new ones constructed. He estimated that if the New York Central could start work at once it would require two to 2½ years to complete the structure.

DEVELOPMENTS BEYOND U. S. BORDERS

Digested from reports by Engineering News-Record correspondents and the McGraw-Hill World News Bureau

PRA establishes new division office to aid Philippine reconstruction—British plan new "lifeline" across Africa—India discusses port improvements—Other foreign engineering news

Philippine Republic—A new division office of the Public Roads Administration is to be established in the Philippines to plan, design, restore and build such roads, streets and bridges as may be necessary for the defense and rehabilitation of the islands, in accordance with the Philippine Rehabilitation Act of 1946 as passed by the 79th Congress.

Thomas H. MacDonald, commissioner of Public Roads, said recently that a preliminary planning mission has already made extensive studies and has determined that a program to cost about $100,000,000 will be necessary. Financing will include contributions by both the United States and the Philippines. For the 1947 fiscal year, $9,960,000 has been allocated by the United States.

"A regular division office will be established with headquarters in Manila," Mr. MacDonald said. "The operations of this office will be in accordance with established procedures to the extent found possible under local conditions. It is anticipated that the program will require four years for completion. Upon completion of the program, the division office will be discontinued and its responsibilities will be transferred to the proper officials of the independent Republic of the Philippines.

"The activity of the division office is undertaken as a part of a larger rehabilitation program involving port and harbor work, air transport, the fishing industry, school and hospital reconstruction, improvement of public health, and a broad personnel training program, all designed to create good will and to restore partially the physical damage to property suffered by the Filipino people during the war."

Lifeline . . . .

Great Britain—Taking heed of the last war's lesson that its "lifeline" to the east through the Mediterranean Sea is neither invulnerable nor easily defended, Great Britain last week made public plans for the establishment of huge military bases and a 3,000-mile superhighway across the "waist" of the African continent.

Behind the plan, observers said, was also the British withdrawal from Egypt, and determination to stand aloof from Oriental politics involved in maintenance of the present sea routes to the Suez Canal.

Arthur Creech Jones, colonial secretary, revealed that plans are under discussion for establishment of huge military bases in Nigeria, on the African West Coast, and in the East Coast Colony of Kenya or Tanganyika. The two bases—along with subordinate establishments and airfields—would be linked by a 3,000-mile highway, passing for the most part through British territory (see accompanying map). The approval of France, through whose Equatorial African mandate a part of the road would have to be cut, of course must be obtained if the project is finally approved.

Part of the road proposed in Creech Jones' statement already exists. During the war, Allied forces hacked a road from Nigeria across French Equatorial Africa and on into Cairo, and, aided by the construction forces of Pan American Airways, built numerous airfields and emergency service bases through the middle of the continent. (*ENR* Feb. 11, 1943, vol. p. 216)

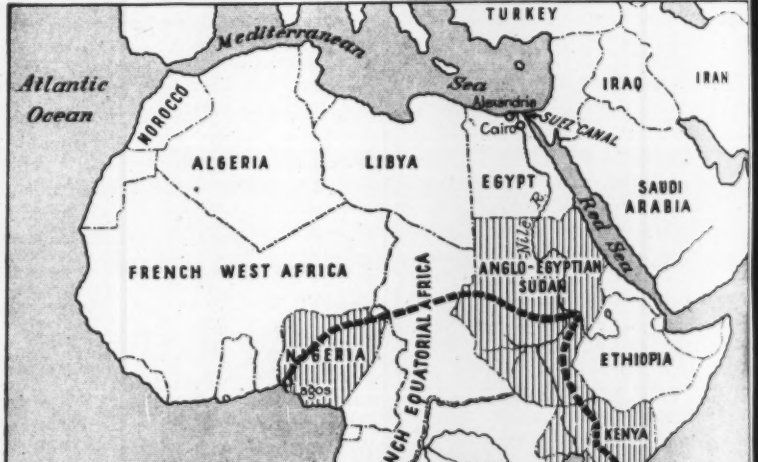
Seaports . . . .

India—Development or expansion of four Indian seaports as part of a program to expand sea transport both internationally and coastwise is recommended in a report just issued by the Ports Technical Committee — a government-appointed survey group.

More than 90 per cent of India is within 700 miles of the sea, and the necessity of more seaports is universally recognized.

The committee's proposals have been forwarded to officials of the maritime provinces and native states for comment. When these comments have been received, the report will be submitted to the Central Government for action. The plan calls for:

A new major port to be constructed near the tiny community of Sika, at the head of the Gulf of Cutch, to provide another outlet between Karachi and Bombay. The new port could be



***New Lifeline** — Seeking to protect its supply lines to eastern possessions, Great Britain last week revealed plans for a 3,000-mile highway across Africa. The heavy dotted line traces the approximate route, following an existing road into the Sudan, thence southeastward into Kenya to Mombasa.*

...orts for India—Now under consideration is ...establishment of three new seaports and ...largement of a fourth to aid India.

...nnected with inland centers by exist... railway lines.

A second port at Bhaktal, also on the ...st coast of the Indian peninsula, to ...rovide a seaport for Mysore state, ...hich is rich in natural resources and now undergoing rapid industrial de...lopment.

Development of Vizagapatam, be...ween Madras and Calcutta on the east ...ast, as a sheltered deep-sea port to ...commodate ships up to 650 ft. long ...d of 30-ft. draft. This work would call ...r the improvement of the port en...ance, extension of docks, and con...ruction of a drydock.

Finally, the committee would vest ...le to land south of Madras harbor in ...e hands of the Madras Port Trust, to ...ermit "orderly expansion" of that ...cility, and the construction of four ...w docks in the next ten years.

...econstruction ....

Holland—Up to the end of Septem...r, 1946, the Netherlands Bank for ...econstruction had granted credits in ...e amount of $1,330,000 to the Dutch ...ilding industry, to aid in rehabili...tion.

Organized on lines similar to the ...nited States' Reconstruction Finance ...orp., the bank is providing aid by ...rticipation with private firms, rather ...an by the nationalization of indus...es as in some other European states. ...he bank was established in October, ...945, with funds provided by the na...onal treasury, private savings banks, ...surance companies, investment trusts ...d pension funds.

In addition to providing funds for ...building war-damaged industries, the ...nk acts on behalf of the government ... making war damage payments.

India—The municipal government ... Ahmedabad plans to start soon on ...nstruction of 900 tenements for in...strial workers, at a cost of more than $500,000, following plans drawn up before the war.

Australia—Inhabitants of the capital city of Canberra, Australia, are solving a current housing shortage by transporting some 200 five and six-room houses about 200 miles from Tecumwal. The frame structures were built by U. S. armed forces.

Sweden—The Swedish government recently set up a $100,000,000 fund for housing loans to municipalities, cooperative organizations and private individuals. Municipalities are to be allowed to borrow up to 100 percent of needed funds, cooperative groups 95 per cent, and individuals, 85 percent.

Highways ....

Puerto Rico—The Puerto Rican Department of the Interior has announced it is prepared to construct about four miles of Insular Road No. 1, from Rio Piedras to LaMunda, as a first-class surfaced highway. The cost will be about **$500,000.**

Union of South Africa—The South African Mining and Refining Co., Ltd., of Johannesburg, producers of bituminous road making materials, recently announced it was operating a new mobile road testing laboratory.

Demonstrated before engineering students at the University of Witwatersrand before starting its first trip, the travelling testing laboratory is equipped to test soil samples, mixtures, aggregates, etc.

Newfoundland — Newfoundland is preparing plans for a $60,000,000 reconstruction program, including $13,210,000 for roads and bridges. Harbor improvements will account for an additional $6,025,000.

Miscellany ....

England — The famous Transporter Bridge, which crosses the River Mersey between Widnes and Runcorn, is to be dismantled and replaced by a more modern, two-deck, high-level structure.

The existing bridge, opened for use about 1900, consists of two main towers between which is a high-level, shallow-truss, to which are secured a set of rails continuous from one side to the other.

A movable carriage travels on these rails, and from the carriage is suspended a travelling platform, located at the grade of the two approach roads to the bridge — at about ground level. Highway traffic drives on to the platform and is thus taken across the stream. The transporter was built in the first place to avoid the cost of a high-level bridge or a drawbridge.

***Airbase for Chinese Government**—Before leaving China as the last Seabee unit to work in the area, the 96th Battalion last summer completed reconstruction of an airbase near Tsingtsao for the Chinese government. Work was distinguished for the maximum use of local materials, with local sand being used for asphalt taxiways and runways, and 114,000 cu. yd. of rock excavation providing some suitable material for paving work. During construction, Comdr. Paul C. Gillette, CEC USNR, was officer in charge. Shortly after completing this base — which is within a few hundred miles of current civil war battles — the 96th was inactivated and the men returned to the U. S.*

Housing regulation changes reflect lagging production of key materials

Civilian Production Administration reports increasing lumber production, but says most other materials remain short—Lift import duties, raise ceilings on lumber and lath

As the monthly report by the Civilian Production Administration showed that production of key building materials is still far behind demand, national agencies concerned with housing announced eight separate actions in attempts to speed the Veterans Emergency Housing Program.

The CPA October report pointed up a few bright spots in the general production picture—particularly in lumber, which was said to have reached a point well above the 1946 goal—but noted that labor troubles, shortages of scrap steel, shortages of freight car transportation and other factors still were keeping production down.

National Housing Agency actions included: The tenth premium payments regulation to be issued by that office, providing incentive payments to producers of sand-lime brick for production above quota between Oct. 1, 1946, and May 31, 1947. The quotas will be established for each separate plant of a producer.

Six groups of timber, lumber and lumber products were certified by NHA for importation free of duty. They include: lumber and timber, rough or planed, or dressed on one or more sides; both hardwood and softwood flooring on which duty is now collected; cedar in several forms suitable for building; plywood; empty packing boxes and packing box shooks; and red cedar shingles.

Ceiling price rises for asphalt and tarred roofing products sold in the northwestern area of the United States, and for rigid siding and backer board sold anywhere in the U. S., were announced by the Office of Price Administration. An increase of 13 cents per hundredweight in the maximum price of asphalt and tarred roofing products in the Northwest area was approved. and the rigid siding and backer board ceiling prices were increased 10 percent.

An increase of $1 per thousand pieces in the ceiling price of lath, and several changes in the regulation covering Western pine and associated species of lumber were contained in another OPA revision. Effective Nov. 4, 1946, the revision incorporates previous amendments granting price increases and adds a provision permitting pricing of common resawn wood into thinner stock at the price of the thicker stock, plus resawing additions.

Ceiling prices for pulpwood imported from the three Canadian provinces of Quebec, New Brunswick and Nova Scotia were raiseed to the levels recently established for sales of this pulpwood in Canada.

NHA also announced approval of a premium payments plan on nails and nail rod, and said that leading nail manufacturers had agreed to exert maximum efforts to meet production goals. The moves were expected to eliminate black market activities in nails.

Production Increases

The Reconstruction Finance Corporation was directed to negotiate a guaranteed market contract with American Fabricators, of Louisville, for the production of 7500 factory-built plywood houses under the Emergency Housing Program. The market guarantee would apply to 2000 of the houses.

In its report on production of building materials for October, CPA said that lumber production in general was well above the rate required to reach the goal of 32 million board-feet set for 1946.

Other products in this field continue to show increases for the most part, CPA said, but production still lags behind the huge backlog of demand. In this category were cement, cast iron soil pipe, asphalt roofing and siding, plumbing fixtures, and softwood, plywood and hardwood flooring.

Declines were noted in production of brick and tile, gypsum board and lath, paper liner, and cast iron radiation.

Western prefab builders organize for production

Southern California builders of prefabricated homes recently organized into a Prefabricated Home Manufacturers and Dealers Association and set up a construction goal of 5,000 houses by the end of the year.

James K. Pearce, chairman at the Los Angeles organization meeting, and head of Pre-Bilt Homes Co., was elected president of the group.

Priority change made to aid veterans housing

As a further aid to the veteran's housing program, the Civilian Production Administration has ordered the Army-Navy Board to discontinue the use of the MM priority rating for delivery of building materials for military housing projects in the United States. The War Department and other agencies doing this type of housing must now use the HH rating, the same as that employed by contractors to obtain materials for the veterans housing program.

The new ruling is effective for the long list of materials on Schedule A of Priorities Regulation 33, except construction lumber and plywood, the MM rating continuing effective for these supplies for military housing. The MM priority also continues effective in securing supplies for military projects other than housing in the United States and for all types of military construction outside the country.

Four priority ratings continue in use. These are: The HHH rating, which is a superior rating employed to obtain extremely critical housing supplies for veterans housing projects; the MM rating; the regular HH housing priority, and the CC rating. The latter is granted to contractors to break bottlenecks on civilian construction work where the welfare of the country is involved.

Unique model home city to be built near Chicago

A $70,000,000 city will be constructed on 2,300 acres of rolling land near Olympia Fields, 55 minutes south of Chicago, according to plans announced by American Community Builders, Inc.

Philip M. Klutznick, president of that organization, and former commissioner of the Federal Public Housing Authority, said that the town will provide homes for 25,000 persons.

Present plans call for houses selling from $7,000 to $10,000 with provision for 600 rental units. The initial program will accommodate 5,500 families and a later expansion is planned for approximately 3,000 more. The first program will probably provide 2,800 single-family units, 650 twin houses for 1,300 families, 200 "town and country" homes for 800 families and apartment buildings for 600 families.

Among others associated with the enterprise are: Nathan Manilow, president of the Manilow Construction Co.; Jerrol Loebl, of Loebl and Schossman, architects; Elbert Peets of Washington, D. C., who collaborated in planning the towns of Kohler and Greendale near Milwaukee, Wis.; Allan S. Harrison of New York City, who has been connected with many large-scale housing projects and Charles Waldman, consulting engineer.

Seven earth-fill dams planned in Northwest

Col. O. E. Walsh, Portland, Ore., district engineer, U. S. Engineers, has announced plans for seven earth-filled tributary dams to replace Quartz Creek dam, formerly proposed for the McKenzie River, and Sweet Home Dam on the South Santiam River.

Rapid development of farms in areas which would be inundated and objections by recreational interests are said to be responsible for the switch.

Cost of four dams now planned for construction instead of the $23,000,000 Quartz Creek project is estimated to be $27,000,000. They include the 335-ft. Cougar Creek Dam on the South Fork of the McKenzie, $11,100,000; the 240-ft. Horse Creek Dam, $6,800,000; the 275-ft. Simmonds Creek Dam on the Blue River, $5,800,000, and the 210-ft. Gate Creek Dam, $3,300,000. These will store 300,000 acre ft. of water as compared with 335,000 for the proposed Quartz Creek Dam.

Substituted for the $7,600,000 Sweet Home Dam will be the 316-ft. Peter Green Dam on the Middle Santiam, $13,000,000; the 120-ft. Jordan Dam on Thomas Creek, $1,900,000, and the 205-ft. Wiley Creek Dam, $2,600,000. The total storage for these dams would be 350,000 acre ft.

Power facilities are not planned for any of the seven reservoirs.

Stream gaging stations proposed for Grand River

The Grand River Conservation Commission in southwestern Ontario has authorized a study of the cost of installing steam gaging stations at various points on that river and its tributaries. The object would be to assist in making more accurate estimates of run-off from the watershed in connection with the rigid control exercised by the Shand Dam, main storage structure of the commission.

The rainfall in that part of the province has been less this year than last so that the water in the reservoir formed by the Shand Dam is 26 feet below full storage level.

A further cause was the recent releasing of 400 million gallons of water from the reservoir to cleanse the river downstream after an industrial plant at Galt had accidentally dumped 500 pounds of phenol into the stream. The city of Brantford takes its water supply from the river and as little as three drops of phenol in a million causes a taste problem.

New proposals offered for S. F. Bay crossing

Brig. Gen. Garrison H. Davidson, chairman of the Army-Navy board established to make a recommendation as the basis for a report to Congress on a second crossing for San Francisco Bay, says that since the closing of the public hearings last August (*ENR* Aug. 22, vol. p. 222), six additional plans have been received.

These plans included such combinations as causeway and tube, floating bridge and tube, bridge and two tubes and causeway and elevated viaduct.

General Davidson said that to date the solution for the trans-bay traffic problem had been narrowed down to three locations and three types of structures. He said he personally felt the need existed and the solution should be one that gives evidence of resulting in the greatest benefit to the bay area.

He pointed out that the board need not accept any of the plans submitted but could make its own suggestion to the War and Navy departments, and that they in turn are not bound to accept the recommendation of the board but may offer some proposal of their own to Congress.

PERSPECTIVE . . . .

Aircraft to Houses

The addition of the huge production capabilities of major aircraft manufacturers to the lagging production of prefabricated housing began to appear as more than a possibility recently, when the National Housing Administration revealed that at least a dozen such plants had facilities available and would enter the field if terms are suitable.

Three of the companies — Douglas Aircraft, Taylorcraft, and Goodyear— are already in the process of negotiating agreements for such production. Two —Beech Aircraft and Consolidated-Vultee—have already agreed to produce at least pilot models and parts.

The entry of the aircraft companies into the housing field, utilizing their long experience with metals and plastics, could conceivably increase the present meager production of conventional-type prefabs (21,000 completed at the end of August) by many thousands. It might also provide an answer to the criticism voiced recently by some Congressional leaders, that prefabricators to date have muffed their chances and missed the point by producing "crackerboxes" that have prejudiced public opinion and by using materials that belong in conventional construction type buildings.

Senator Hugh B. Mitchell, a leader in Congressional moves to spur housing construction, said in Washington recently that prefabricators should concentrate on adapting materials not previously used in houses, and that they should contribute technically to a new art "of making houses on factory production lines." Such dwellings, he said, can be designed close to conventional line and plan, and stay away from eccentricity.

The principal stumbling block to the entry of the aircraft industry into the housing field appears to be marketing —a problem that did not concern them in their wartime production. Most apparently will wait until a better sales and marketing agreement can be worked out with the government, although NHA has already offered to have the Reconstruction Finance Corp. purchase any unsold houses, guaranteeing 90 percent of manufacturing costs.

Of the concrete plans reported by NHA, the Goodyear company will begin delivery in a few weeks of houses to sell between $5,000 and $6,000 — first units to be delivered being a 26 house test group; Consolidated Vultee is hand-building a unit at its Downey, Calif., plant, to sell eventually for about $7,000, and Taylorcraft, a long time producer of light airplanes, hopes to build some 15,000 steel or aluminum homes during 1947. Douglas has been engaged in lengthy negotiations with NHA over questions of distribution, guarantees and similar matters, but NHA officials have expressed confidence that the company will go ahead with plans soon.

Outside the aircraft field, the Chicago Vitreous Enamel Products Co. is quoted by NHA as planning to produce prefabricated houses of enamelled steel at the rate of 400 a day. Panels will be of any desired color, washable inside and out. The company plans also to produce bathroom units, cabinets and other components for their own houses and for structures built by the airplane makers.

Housing officials are enthused about this plan, and believe it will serve as another prod to aircraft makers to take seriously their chance to get into what may become big business.

Random Lines *from an editor's notebook . . .*

. . . . In which ENR's heavy construction specialist reports progress on dams in the Ohio River watershed

Substantial progress is now being made on some of the dams in the Ohio watershed, despite curtailment orders and current shortages of materials and equipment. All the structures mentioned here were started in the early days of the war or before, but construction was halted when it became apparent that they could not be completed to aid directly in the war effort.

Bluestone in West Virginia

On the New River, at Hinton, W. Va., in the Huntington District of the U. S. Engineer Department, Dravo Corp. has resumed construction on the 1,000,000-cu.yd. concrete gravity Bluestone Dam. Concrete below high water was completed (except for diversion blocks) for half the width of the river before the job shut down. Since January a second cofferdam has been completed and all of the foundation rock under the gravity section has been covered with concrete. Considerable work remains to be done in the rather long apron structure as well as in all the portions above high water.

Concrete which is made from purchased rock delivered by rail is mixed in three 3-cu.yd. tilting mixers. It is delivered in 3-cu.yd. buckets that are handled by whirler cranes operating on tracks supported on 8-ft. dia. piers that are part of the permanent concrete. Whirlers are moved up in 30-ft. jumps as the concrete rises.

One rig now can top out the 260-ft. high structure, while another is setting the six 19-ft. dia. penstocks.

"Far piece" to Wolf Creek

Trying to find transportation south and west to a railroad on the Clinchfield R.R. and to Wolf Creek Dam in central Kentucky, almost led to a decision to return to New York for my old automobile. However, two separate trains took me eventually to Somerset, Ky., railhead on the east and postoffice for the Wolf Creek job—55 miles from the project. I practically bought a taxicab for a ride through scenic hills to the work.

J. A. Jones and Wright Contracting Co. have taken over the job started by S. A. Healy in building the dam, on the main stem of the Cumberland River. Before closing down, the Healy organization had moved about 4,000,000 of the 11,000,000 cu. yd. of rolled fill, erected the two traveling-head towers of a cableway and partly completed the plant to mix and place 1,400,000 cu. yd. of concrete.

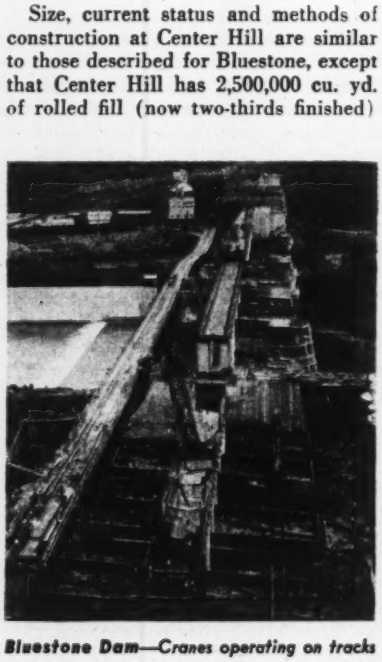
American Bridge Co. is now erecting a single 370-ft. tail tower, said to be the second highest cableway tower ever built, for the two 2,300-ft. span cableways. These are vital transportation facilities since the only other means of access calls for a 35-mi. road and ferry trip. Excavation is under way in the powerhouse area with concreting expected to start early next year.

Nashville Engineer District has jurisdiction over Wolf Creek and two major dams on the tributaries of the Cumberland—Dale Hollow on the Obey River and Center Hill on the Caney Fork.

Morrison-Knudsen completed Dale Hollow Dam about three years ago and now are back putting in two 20,000-kw. generating units. No definite plans have been made for distribution of the power produced, but the possibility of handling it through the Tennessee Valley Authority system is being studied.

Center Hill like Bluestone

Size, current status and methods of construction at Center Hill are similar to those described for Bluestone, except that Center Hill has 2,500,000 cu. yd. of rolled fill (now two-thirds finished) and 870,000 cu. yd. of concrete. Some 800 to 1,000 cu. yd. of earth is being moved per hour with a combination of self-loading carrying scrapers, shovels, trucks and a plow type loading unit. The latter loaded as many as 65 bottom dump 13-cu.yd. hauling units each hour for a 10-hr. shift with each load averaging 10 cu. yd. as measured in place in the fill.



Bluestone Dam—Cranes operating on tracks that are raised as concrete rises are used by Dravo Corp. to place the 1,000,000 cu. yd. of concrete.

Stone aggregate for the concrete is produced at the site and concrete is hauled in 2 cu. yd. buckets to revolving cranes for placing. Some of these cranes are on trestles on concrete piers; others operate on steel gantries, one leg of which is 35 ft. longer than the other, riding on rails set on the downstream face of the dam. Concrete has reached roadway height in one section of the dam while the foundations are just being covered in the final cofferdam. Massman-Metcalf-Hamilton Companies hold the general contract.

Completion of both Center Hill and Bluestone is scheduled for 1948 with the projects being continued under tentative modifications of the original contracts by the firms that started the work.

TVA has some construction

The Tennessee Valley Authority has resumed work at Wautauga Dam above Elizabethton on the Holston watershed. The diversion tunnel for this earth- and rock-fill dam, holed-through previously, will now be lined. Excavation is under way on the 4,000-ft. power tunnel, which is half complete. The earth- and rock-fill work will be resumed next spring, and it is expected that power will be produced in 1948.

Hales Bar Dam, below Chattanooga, is being raised about 3 ft. by changing the fixed weir crest to a tainter gate spillway. The existing concrete crest is being cut down, piers and a new crest will be added inside individual cofferdams for each pier and gate. The new wall of concrete along the upstream side of the dam but below the concrete (*ENR* Nov. 6, 1941, vol. p. 654) has been successful, except in one small area, in stopping the flow of some 1,700 cfs. under the dam.

To meet a continuing high demand for power, which continually exceeds wartime demands, TVA is installing two additional generator units at Wheeler Dam, one at Fort Loudoun and one at Douglas. Present power output averages over 1,800,000 kw. hr. with peaks over 2,000,000 kw. hr. So far this year practically all of this electricity has been supplied by hydro power, but depleted reservoirs indicate early use of some steam facilities, a condition normally expected much earlier in the season. . . . *H.W.H.*

Name new Army division engineers

New chief officers in four division engineer offices, were named, effective Nov. 1, by Lieut. Gen. Raymond A. Wheeler, Chief of Engineers, as the engineer corps continued its shift to peacetime footing (*ENR* Sept. 26, vol. p. 406).

Brig. Gen. Raymond G. Moses becomes division engineer of the New England division at Boston, relieving Maj. Gen. Douglas L. Weart, who will become division engineer of the Ohio River division in Cincinnati, Ohio. Col. Beverly C. Dunn, who has been head of the Ohio River division, becomes division engineer of the North Atlantic Division at New York, relieving Col. Charles L. Hall, and Col. George W. Gillette, who has been acting division engineer of the South Atlantic division, takes over that post at Atlanta, Ga., relieving Brig. Gen. James D. Newman, Jr., now on terminal leave preparatory to retiring.

Colonel Gillette has also been district engineer of the Wilmington, N. C., engineer district and his appointment as division engineer vacates that post, which will be filled by Col. Beverly C. Snow, now in the personnel division, Office of the Chief of Engineers.

New England personnel cut

Before leaving for his new post at Cincinnati, General Weart announced the release of more than 450 New England employees of the Army Engineers' office, with an estimated saving of about $2,000,000 yearly.

As a part of the office's reorganization which dropped the two sub-offices in both Providence and Boston, General Weart said that the Providence office would be retained as a working center with Henry A. Whitcomb of Providence, as chief engineer. The former head of the Providence sub-office, Col. T. F. Kerns, will be deputy division engineer, as second in command of the New England office.

The third key job was assigned to S. S. Ganick of Boston, who will be head of the control branch which supervises all engineer projects. He has been with the United States Engineers since 1935 and is widely known for his computation of a triangulation network for Boston Harbor.

In addition to the 450 employees already cut from the payroll, 200 more will be dropped so that the total working force will be less than 600 by the early part of next year.

Louisville directs floodwall

Closing of the Cincinnati, Ohio, district office of the U. S. Corps of Engineers Dec. 1, includes the transfer of supervision of flood control projects totaling $14 million to the Louisville district, Col. B. B. Talley, district engineer at Louisville, Ky., says.

This means a 50 per cent enlargement in the Louisville office, Colonel Talley said, to include supervision over the following:

The $9,370,000 Cincinnati floodwall now under construction; a $5 million floodwall project at Newport; seven other navigation and flood control projects on the Kentucky and Licking Rivers in Kentucky, and Great Miami and Little Miami Rivers in Indiana and Ohio.

The Louisville district also takes over military construction at Wright and Patterson Fields, Dayton, Ohio.

Development fund sought for Utah water resources

The Utah Water Users Association has voted to ask the 1947 state legislature to set up a $1,000,000 to $2,000,000 reclamation fund for development of water resources in the state.

The money would be used to supplement Bureau of Reclamation funds and enable development of some of the state's minor reclamation projects. The fund, repayable without interest by the beneficiaries of the projects, would be supplemented biennially until a revolving fund of several million dollars is available.

Increased production of western pine predicted

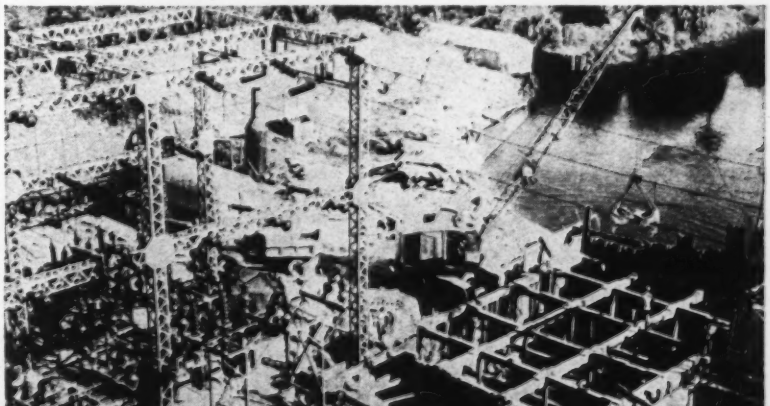
The Western Pine Association has forecast an output of about 5,400,000,000 ft. in 1946, a considerable increase over the 1945 production, but lower than the 6,092,000,000 ft. in 1944 and a 1904-44 average of 5,913,000,000 ft. Pine represents about 41 per cent of total lumber production in the western states.

Production of softwood plywood also is on the upgrade, the output for 1946 from about three dozen west coast mills now operating as near capacity as possible being estimated at more than 1,300,000,000 sq. ft., ⅜-inch thickness basis. However, that output depends heavily on the supply of freight cars, since the material must be stored under cover and few mills have more than two weeks' storage space available at the present time, the association said.

The forecast production is up for the first time since the war peak in 1943, when nearly 1,500,000,000 sq. ft. was produced. However, even at the accelerated rate, demand is so strong that all shipped goes into construction almost as soon as delivered, leaving dealers without stock. (See also page 6 this issue for furthed details.)

Widespread strikes in the lumber industry during the latter part of 1945 were partially responsible for the lag in production that year.

Production of lumber of 1 and 2-in. sizes, the type used for home construction, also is above average, the West Coast Lumbermen's Association setting it at 115 per cent of normal.



***Power Plant Addition**—Steel piling is driven to support a new intake chamber and generating unit housing at the Inglis, Fla., plant of the Florida Power Corp. A new 30,000-kw. steam-driven generator will be installed. Raymond Concrete Pile Co. is contractor on excavation, piles, foundations.*

Increase in shipments of construction equipment

Shipments of construction machinery to domestic users during the second quarter of 1946 were valued at $76,100,000, according to a report released last week by the Bureau of the Census. These shipments, the bureau said, were about 19 percent higher than the first quarter shipments which were valued at $64,100,000.

During the same period, prices of construction equipment rose slightly less than one percent, the Department of Labor reported. All types of machinery are now selling "well above" 1939 levels, labor statisticians reported, with largest increases noted in material processing equipment—up 33.6 percent.

The dollar values of machinery shipments for all items except power cranes and shovels represent the cost on an f.o.b. factory basis, after trade and quantity discounts have been deducted. The dollar value of power cranes and shovels represents the cost to the ultimate user.

Philadelphia appoints new works director

Thomas Buckley, formerly chief engineer of the Bureau of Engineering, Surveys and Zoning, last week was appointed director of the Department of Public Works of Philadelphia, Pa., succeeding Martin J. McLaughlin.

Mr. McLaughlin, 55, who was serving his second term as director of public works, died Oct. 20.

Mr. Buckley, a career man in the Philadelphia municipal service, has been associated with the city's engineering work since 1905. A graduate of Temple University, he first engaged in private work before joining the city's staff. In 1928, he was named assistant chief engineer and surveyor of the bureaus of engineering and surveying, and became chief engineer in 1940. Active in professional affairs, he is a past president of the American Society of Municipal Engineers and the American Public Works Association.

Mr. McLaughlin was the second Philadelphia public works director to die in office in a little more than a year. His predecessor, John H. Neeson, died in 1945. A native of Philadelphia, Mr. McLaughlin was a graduate of Villanova College, and then entered road construction work. Joining the city's engineering force in 1924, he became deputy chief engineer of the Bureau of Highways, and in 1940 became the city's airport engineer as well as chief engineer of the water bureau.

Begin modernization job on famous Eads Bridge

The Eads Bridge at St. Louis, Mo., which in 1872 was the first bridge across the Mississippi River, is having its face lifted and will otherwise be modernized in a program that will cost more than $291,000.

H. Austill, chief engineer of the Terminal Railroad Association of St. Louis, has awarded the general contract for the improvements to the Robinson Erection Co., St. Louis, and the work is now in progress.

The modernization program includes reconstruction of the pedestrian and vehicular deck to provide for four traffic lanes for vehicles instead of only three; resurfacing; new guard rails; and complete refurbishing of the 1,524-ft. length of three center spans.

Study different systems at radiant heated plant

Heating the new A. O. Smith Corp.'s new 415,188-sq. ft. plant at Kankakee, Ill., by several different arrangements of radiant-heating piping will provide an opportunity to study and test the different systems. Features are the use of decentralized units instead of a central plant; steel, copper and wrought-iron pipe; thermocouple wells in the ground under the floor slab; and flow-meter connections in headers to measure water flow.

Heat will be furnished by 120 individual natural-gas-fired water heaters.

THERE WAS A MISTAKE

The caption under the illustration on page 1 of the Oct. 24 issue was headed "No Mistake", but—there was a mistake.

In the second line the word "where" was omitted preceding the words "they were needed". Not satisfied with this error, the printer's devil made us say that certain piles were "4 in." instead of "14 in.", in the caption under the photo on page 7 of the same issue.

The editorial face is red.

Kentucky will teach vets highway engineering

Kentucky veterans wishing to learn highway engineering by training on the job have been invited by Highway Commissioner J. Stephen Watkins to apply for jobs.

Watkins said approval of some 30 classifications for on-the-job training had been received from the vocational rehabilitation and education division of the Veterans Administration.

"Veterans must first apply to the Veterans Administration to procure a certificate of eligibility," the highway commissioner said. "The highway department will pay the veteran its established rate for the work to be done, in the classifications which provide the necessary training leading to advancement to the position desired. A scale of additional pay is provided in the program for the veteran, to continue in force for the period of his eligibility.

Detention Barracks—*Construction is being rushed toward a November deadline on completion of a $6,000,000 reinforced concrete detention barracks for the Army at Camp Cooke, near Lompoc, Calif. The structure, which will house some 1,500 soldier prisoners under "maximum security" conditions, will be more than 1,100 ft. in length, and will contain classrooms, an auditorium, chapel, gymnasium, and rehabilitation facilities. Principal construction contract is held by Robert E. McKee of Los Angeles.*

RADIO SNOW WARNINGS FOR MOTORISTS

The Washington state highway department is installing radio equipment to allow motorists to be warned well in advance when winter snows block mountain passes.

Director Clarence Shain explained that the system will permit stations at the passes to flash the latest word on highway conditions as well as to give weather reports to valley points.

At Ellensburg a station of the new frequency modulation network is ready for operation and others are being constructed. The department hopes to have stations at Blewett, Stevens and Snoqualamie passes and at other points in service this winter.

To try "no parking" plan in Toronto

Prohibition of all automobile parking in the main downtown area of Toronto, Ont., is to be tried for three months, starting on Jan. 1. This action was taken following a report on the critical traffic problem existing in the city by a special committee on which were represented the city traffic conference, the local harbor commission and the city council.

The parking ban will be enforced during the daytime only, and will not be in force on Sundays and holidays. The Toronto Transportation Commission will provide a local bus-service from the main downtown parking area to the main business center and "cruising" of taxis (long prohibited in Toronto) will be permitted during the trial no-parking period.

Penna. snow removal cost set at $6 million

Snow removal and winter service will be maintained on 20,341 miles of roadway in its state during the 1946-47 season, at a cost of about $6,000,000, the Pennsylvania Department of Highways has announced.

The mileage on which snow removal is planned for the coming winter is 101 miles more than last year. New equipment is being used to retire wornout machinery which was used during the war years. Included among the purchases are two of the largest trucks ever bought by the department—of 42,000 lb. gross weight. Necessary accessories are included to make them mobile snow plows, which are of the large "V" type with hydraulic wings on both sides.

With the new equipment the department will have nearly 3,000 plows available, and in addition more than 250 power graders, for snow removal.

Delaware sanitary needs set at $10 million

A long-range public works program, calling for eventual expenditure of $10,588,000 would correct all water supply and sewerage deficiencies for Wilmington and other Delaware communities, Richard C. Beckett, state sanitary engineer, disclosed recently.

A survey of the state's requirements recently was concluded by the State Division of Sanitation. It showed "deficiencies" in water supply systems that would require expenditure of about $2,000,000; and in sewerage facilities that would cost about $7,000,000.

Arkansas 1947 road work to cost 22 million

An analysis of Arkansas State Highway Department figures reveals that a total of $22,000,000 will be available for the construction of highways in that state during 1947. Of that amount, the federal government will furnish $10,992,000 and the state will put up an additional $11,000,000—if the present system and amount of revenue collections are maintained through to the end of the bond year, April 1, 1947.

The federal aid money which must be matched by state funds consists of $3,453,000 held over from the 1946 fiscal year and $7,539,000 furnished by the United States Treasury for 1947.

At present, the state has $4,732,623 in its construction fund.

N. Y. Thruway building starts at three points

Work has started at several different locations on New York State's Thruway. The latest ground-breaking was near Victor in Ontario County on Oct. 25, where a $1,958,846 contract for preliminary grading and erection of structures was awarded to S. J. Groves and Son Co. of New York.

In Ulster County the Grandview Co. of Mount Vernon, N. Y., is now engaged in constructing a section of the highway extending more than two miles northward from Greene County.

A few weeks ago similar work was started at Liverpool, Onondaga County, a short distance north of Syracuse.

The 486 miles of the entire Thruway across the state is scheduled for completion by 1951 at a cost of $202,000,000. Governor Thomas E. Dewey says that the work will not at this time compete in any way with housing efforts.

To build toll bridge over Connecticut River

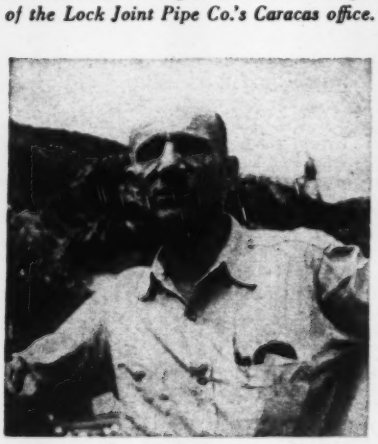
Governor Raymond E. Baldwin of Connecticut has approved a $6,000,000 bond issue by the Old Lyme-Saybrook Bridge Commission to finance construction of a toll bridge across the Connecticut River. E. Lea Marsh, Jr., Old Lyme, chairman of the bridge commission, said immediate steps would be taken for preparation of the necessary legal certificates and bond certificates will be presented for bids. Members of the bridge commission in addition to Mr. Marsh are: George A. Maynard, Norman L. Wright, Thomas Coulter and Weston C. Fullen.

***Florida Bridge**—The St. Petersburg, Fla., Port Authority will begin work early in 1947 on this $10,000,000 bridge across lower Tampa Bay. Main span of the structure will be an 800-ft. long steel truss that will clear the ship channel by about 145 ft. (ENR Oct. 31, vol. p. 562).*

MEN AND JOBS

Hosts to a party of U. S. engineers visiting the Agua Fria Dam of the Caracas, Venezuela, water supply were these members of the Groves-Drake Construction Co.: E. M. Grove, project superintendent; E. O. Hughes, office manager, and E. P. McGahn, general superintendent.

The dazzling white of concrete pipe—a good deal of which is covering the Venezuelan landscape these days, is the reason for Bill Brend's dark glasses. He's manager of the Lock Joint Pipe Co.'s Caracas office.



George Meissner, project superintendent for the Raymond Concrete Pile Co. on construction of the La Guaira, Venezuela, water supply, doesn't usually expose himself to the tropical sun in this fashion.

Col. James A. MacAlarney, recently with the Corps of Engineers, U. S. Army, has joined F. H. McGraw & Co., engineers and constructors, Hartford, Conn. His first assignment is as superintendent in charge of the $3,000,000 contract for the finishing and installing of production equipment in the Ford Motor Co. assembly plant being built at St. Louis, Mo. Col. MacAlarney served for eight years with the Army Corps of Engineers; during the war he was respectively district engineer for the North African Theater, engineering staff officer in the Middle East, and commander of the 352nd Regiment of Engineers. He was awarded the Legion of Merit. He attended Drexel Institute, Philadelphia, Pa., and the Army Engineering School at Fort Belvoir, Md.

Whitney L. Bradley has been appointed town engineer of Waterloo, Ont., succeeding the late Claude E. Necker. Mr. Bradley is a graduate in civil engineering of the University of Toronto. After graduation in 1944 he served with the Royal Canadian Engineers, until he became assistant town engineer at Waterloo last March.

William Kenneth Clawson has been appointed assistant engineer for Middlesex County, Ont., with headquarters in London. He is a graduate in civil engineering of the University of Toronto and served in the war with the Royal Canadian Engineers. Since his return he has been with the Horton Steel Works Ltd., at Fort Erie, Ont.

J. Clark Reilly is retiring as general manager of the Canadian Construction Association after 27 years. Mr. Reilly is given leave of absence until the end of the year, after which the association will retain his services in a consulting capacity. **R. G. Johnston** is associate general manager.

Merrill Ash, at Salem, Ore., has been appointed to take over preliminary engineering work on a projected interceptor sewer line to be built before construction of a sewage plant. Ash began his engineering work with the city engineer's office in 1927, later going to the Los Angeles Control Commission where he became senior designer. He was on the Alaska Highway project, in Arabia with the Bechtel-McCone Construction Co. and has just returned from Brazil where he was with a consulting engineering firm.

Burton G. Dwyre, construction engineer, has been appointed to acting state highway engineer by the State Highway Commission of New Mexico to succeed F. G. Healy, resigned. Mr. Dwyre was state highway engineer from January, 1939 to May, 1943.

Floyd F. Schroder, an engineer with

Meeting at the sixth annual regional session of Region 5, Associated Equipment Distributors, at Atlanta Ga., recently, were, (seated): E. R. Galvin, Albert E. Hahnan and Frank McBath—association president; (standing) Don Nichols, M. C. Bishop, K. V. Turner, Gerald Moyer, George T. McDonald—director, Georgia State Highway Department; Carol Winchester and L. J. Moore.

the U. S. Geological Survey for 18 years, has been named district engineer at Louisville, Ky., to direct activities of the surface water division, Resources Branch, in Kentucky. He succeeds **Joseph V. B. Wells,** who recently was promoted to chief of the division at Washington.

James M. Jensen has been elected to the newly created post of assistant to the president of James Stewart & Co., Inc., engineers and contractors. Mr. Jensen has been associated with the company for 31 years, having joined the organization after his graduation from Yale University and Sheffield Scientific School in 1915. He has been serving as project manager in charge of large pulp and paper plants being built at Macon, Ga. Mr. Jensen superintended the construction of many of the office, industrial and institutional buildings erected by Stewart, including all the plants which the company has built for Linde Air Products Co. Among the buildings in New York City on which he directed the work are the Federal Court House, New York County Lawyers Club, New Amsterdam Casualty Building and Mecca Temple.

J. M. Jensen

C. E. Henriot, since 1942 paving superintendent for the Western Asphalt Co. of Seattle, Wash., has been approved as superintendent of streets at Tacoma, Wash. He has been associated with road construction and repair work in western Washington for more than 25 years.

A. F. Morris has retired as district engineer in Washington state for the Public Roads Administration, with offices in Olympia, and has been succeeded by **Fred L. Dixon.**

Weller Probasco, formerly of Salem, Ore., has been appointed city engineer at Newberg, Ore.

Robert W. Loomis is a structural engineer in the Plaza Building, Windsor, Conn.

William Higgins, superintendent of public works, Fort William, Ont., has retired after many years service.

Silas McBee, city engineer at High Point, N. C., from 1928 to 1941, has been appointed director of public work there, succeeding **Sam H. Strickland,** who resigned recently to enter private industry. McBee served in the Navy during the war and lately has been with a private engineering firm.

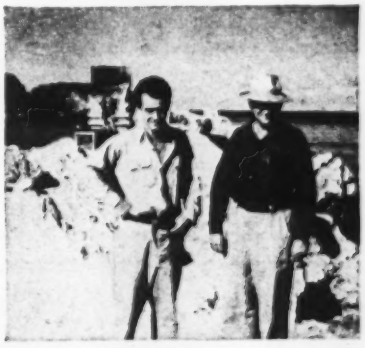
Col. Douglas H. Gillette, Army Engineers, has been appointed technical adviser to the Greek Economic Delegation and the Greek Purchasing Mission in Washington. He spent the last summer in Greece studying the reconstruction problem as chief of the joint transportation facilities mission and was named at the request of the Greek Ambassador of the United States. Engineer of the Second Army at Baltimore, Md., Colonel Gillette is in charge of maintenance of all posts, camps and stations in six Middle Eastern States and in the District of Columbia.

Personnel changes in the Pennsylvania Highway Department have been announced as follows: Appointment—Harrisburg Headquarters, **James W. Hoffman,** Valley View, Resident Engineer; Resignation—District 2, Clearfield, **Wharton D. Wrye,** Morrisdale, project engineer.

John E. Brumbaugh, formerly village manager of Briarcliff Manor, N. Y., has become general manager of The Tuxedo Park Association, Inc., Tuxedo Park, N. Y.

Henry Edward Thompson, director of utilities at Chapel Hill, N. C., for nine years, has been appointed superintendent of the municipal water department at Washington, N. C., succeeding **Dan T. Smith.**

Donald S. Walter, son of the late R. F. Walter, chief engineer for the Bureau of Reclamation, recently was appointed construction engineer in charge of construction at Anderson Ranch Dam of the Boise Project, in southern Idaho.



Pacific island climate accounts for the informal dress of William A. Pomeroy (left) vice-president of the J. H. Pomeroy Co., Inc., and M. H. Slocum, project manager, as they pause during inspection of a breakwater in Apra Harbor, Guam.

Working hard to make the American Society of Civil Engineers recent fall meeting at Kansas City a success were, left to right: W. W. Horner of St. Louis, ASCE president; R. N. Bergendoff and E. B. Black, both Kansas City consulting engineers who served as general chairman and program chairman, respectively.

ENGINEERING SCHOOL NEWS

Duke's new building progressing—Engineering at Arkansas—8,000 students at Georgia Tech—Connecticut expands

The progress that is being made on the new engineering building now under way at Duke University, Durham, N. C., gives promise that the structure may be ready for occupancy in the fall of 1947. The $750,000 plant, which comprises a total volume of 1,200,000 cubic feet, will double the present capacity of the engineering school now housed in five buildings on the campus.

Informed sources at Durham said that the 3-story building, besides classrooms, will have a complete drafting room, and blueprint room facilities. The E-shaped structure will provide a wing for each of the three branches of engineering offered at Duke—civil, mechanical and electrical. The contractor is the J. A. Jones Construction Co.

Arkansas State College of Jonesboro, Ark., is inaugurating 4-year courses in civil, electrical and mechanical engineering. The campus has adequate facilities to house single men on a barracks basis in permanent concrete structures. This school, located about 74 miles northwest of Memphis, Tenn., is a co-educational institution established in 1909. Most of its buildings have been constructed since 1932. In anticipation of capacity enrollment, new laboratory equipment for the engineering departments is being collected and installed. Applications are now being accepted for enrollment in the quarter beginning Nov. 29.

Although the enrollment at the Georgia Institute of Technology and other southeastern engineering schools is now almost double that of pre-war years, industry's demand for engineers far exceeds the available supply, institute officials report. Tech's total enrollment now, including students in night school and emergency training courses, is approximately 8,000. The estimated shortage of engineers by 1949 for the entire country will reach 40,000, according to Blake R. Van Leer, president of Georgia Tech.

Changes in faculty and plans for expansion of the engineering school of the University of Connecticut, Storrs, Conn., which now has about 1500 students, have been announced, as follows:

F. L. Castleman, Jr., formerly professor and head of the civil engineering department, has been appointed dean of engineering and professor of civil engineering; K. C. Tippy, formerly associate professor of civil engineering, has been advanced to professor and head of the civil engineering department; G. S. Timoshenko, formerly associate professor of electrical engineering, has been advanced to professor and head of the electrical engineering department; eleven new instructors have been added to the civil, electrical and mechanical engineering departments.

Immediate plans for expansion call for enlargement of the present engineering building, with temporary buildings erected to the north of the main building. Plans are under way for the addition of aeronautical and chemical engineering, which will necessitate further alterations. The university is operating a separate branch at Fort Trumbull, New London, where the first two years of engineering training now are being offered.

***Traffic Solution**—As an answer to the growing problem of providing speedy cross-town highway transit across crowded lower Manhattan Island in New York City, the city's planning commission last week revealed that plans are already under way for a $22,300,000, six-lane elevated road that will link the Williamsburgh and Manhattan bridges (upper left and right respectively in photo) and the West Side Elevated Highway.*

Robert Moses, city construction commissioner, said that in conjunction with this project—which would not be put under construction until 1948—a large passenger car garage would also be constructed near Manhattan bridge. In a letter of transmittal, Mr. Moses said that the proposed elevated expressway should be the first of several such links between bridges crossing the East River and the parkways and expressways serving north-and-south traffic in Manhattan.

The main section of the elevated roadway would have three lanes of traffic in each direction, separated by a central mall, and would carry both truck and passenger-car traffic. Planning is being carried forward under a $100,000 appropriation in the city's 1947 capital budget. The engineering firms of D. B. Steinman and Madigan-Hyland, both of New York City, have been retained to prepare final plans, in conjunction with the planning commission and the office of the Borough President of Manhattan.

N. Y. Times photo

Three states to build new service facilities

Paving the way for California's construction of new office buildings in the state's capital, the property acquisition board recently authorized expenditure of about $250,000 for 17 pieces of Sacramento property. This brings the total spent or authorized to $857,350 and leaves only five parcels yet to be negotiated for.

H. W. Leonard, right-of-way agent for the division of highways, said virtually all of the properties are improved and that through rentals and leases of houses and other structures the state is receiving nearly 7 per cent on monies already invested.

Welfare center in Delaware

Plans for a Delaware state welfare center, to cost $900,000, and to be established at Fort DuPont have been disclosed by Governor Walter W. Bacon. Eventually it will include a 400-bed institution.

The center, said to be the only project of its kind in the country, will occupy buildings and grounds at the military reservation which were acquired by the state.

The project is expected to be completed by the end of 1947. The almost ready-made facilities at Fort DuPont will make unnecessary the immediate accomplishment of planned expansion at the State Hospital, an old age welfare home, and a detention home in Wilmington.

Development of the welfare center resulted from studies made by the State Postwar planning Commission.

Last year the Wisconsin state legislature appropriated $17,000,000 for new state buildings, but according to State Architect Roger Kirchoff the work is to be delayed because the buildings would now cost $34,000,000.

"The state has found itself stymied in attempts to erect University of Wisconsin buildings and state institutions and hospitals", Mr. Kirchoff said, "because building material prices changed so radically from the drawing board stage to the time when bids are opened."

Anti-smog campaign started in Los Angeles

District Attorney Fred N. Howser has filed civil injunction action against one suburban municipality and 12 large corporations in a renewal of the Los Angeles offensive against "smog."

The suits asked that the defendants "perpetually" cease operating plants creating a smoke nuisance until they take abatement measures. Defendants include operators of oil refineries, steel works, smelting and asphalt plants.

The new campaign against the smoke-fog haze began late in September when Howser detailed an investigator and two deputies to get evidence on the industrial plants. Working with city and county smog control officers, the investigators took and analyzed samples of air in the vicinity of the plants.

The suits charge that the defendants permitted "poisonous, noxious, irritating and offensive fumes, gases, smoke, soot, grime, dust, hydro-carbons, particate matter, chemical substances" and other offensive products of combustion.

Insurance Building—*Excavation work and driving of steel piles for the $15,000,000 John Hancock Mutual Life Insurance Co. in Boston's Back Bay business section are well under way, although present plans are for completion of the foundations only. The 26-story structure will be Boston's tallest.*

Brookline, Mass., plans an express highway

What is said to be one of the most ambitious projects ever planned by a Massachusetts municipality is being considered by Brookline, suburb of Boston. Officials of that community and others in the vicinity are planning the construction of a 3-mile, 6-lane express highway through Brookline from Boston to the Newton boundary, and the removal of many buildings in Brookline Village. There would be three overpasses across a depressed highway in the village. In addition, it is planned to construct a $2,000,000 retail trade mart on the existing Worcester Turnpike.

The project, officials say, would eliminate traffic congestion and change Brookline Village into a modern business district to be patronized by Brookline, Newton, Needham and a score of nearby cities. In addition, the plans call for one of the largest auto parking spaces in the state.

Selectman Edward Dane, chairman of the Brookline Traffic Committee, says that it is hoped that Boston will join Brookline and the state in perfecting plans for a similar highway from the Brookline boundary along Huntington Avenue in Boston and Washington Street in Brookline.

Water runoff in Arizona 50 percent below normal

Although summer rains were good, water runoff in Arizona still has been only about 50 per cent of normal for the last 12 months, according to state water authorities.

Record low runoffs in the state this year have reduced irrigation and culinary water supplies and drained hydroelectric power resources. (*ENR* Aug. 22, vol. p. 221)

"While September storms caused an above normal runoff for the month, the deficiency for the last 12 months still is critical," the report declared.

A mid-September storm that swept diagonally across the state from the southwest brought above-normal runoff to streams in its path, especially the Salt River above Roosevelt Dam, which flowed 413 per cent of normal. The Salt River reservoir system showed a gain of 75,000 acre-ft. instead of the usual loss of about that amount. The runoffs from the Santa Cruz River and Sabine creek were approximately 240 per cent above normal, but the Verde River, Gila River and Rillito Creek runoffs were only normal or below during the period under review.

Navy wants recruits for Civil Engineer Corps

The Navy Department has announced that applications are now being accepted for commissions in the rank of Lieutenant (jg) in the Civil Engineer Corps.

In order to qualify for appointment, candidates must be graduates of an accredited college or university with a scientific degree in engineering; be not less than 22 nor more than 30 years of age; have three years professional experience in engineering or related active military service; and be physically qualified by standards set forth for officers of the Staff Corps, U. S. Navy.

Application forms are available at the various offices of Office of Naval Officer Procurement, throughout the United States.

Toronto to remove snow by radiant heat

Radiant heating will be tried out this winter on a sidewalk in Toronto, Ont. The committee of works of the city council has granted permission to Page Hersey Tubes Ltd., to rebuild the sidewalk in front of their office building on Church Street, in the center of the city, in order to embed a tubing system in the concrete of the re-made sidewalk. Heat from the office building will be supplied to the piping system with the idea of keeping the sidewalk clear of ice and snow throughout the winter.

Study economic effects of Clark Fork dams

A field crew of U. S. Engineers under Willard W. Whipple has established headquarters at Newport, Wash., on the Idaho border to study "the effects of storing water by building a dam or dams on the Clark Fork River upstream from Newport, Wash., at the Albany Falls, Ida., site and to study the amount of flood damage that could be prevented if the dam or dams were built upstream from Newport and not below Newport."

The engineers will study the economic effects that may result from the two proposals if carried out, including an estimate of the cost of land taken out of production, removal of buildings, railroads, and other factors involved in backing up water behind Albany Falls or elsewhere for flood control storage. They will also make an appraisal of land and building values in the area under study.

Seek control program for Ontario watershed

A program of conservation and flood control for the valley of the Thames River, the principal watershed of southwestern Ontario, was presented to the Thames Valley Conservation Committee by Dana Porter, Ontario's minister of planning and development, on Oct. 25. The 403-page report, which the minister presented and summarized, contains the results of surveys started in 1945.

The surveys and report were made under the direction of A. H. Richardson, chief conservation engineer in the department. The report deals with the entire drainage area of 1,200 square miles above the city of London, which has frequently suffered serious damage from floods. The principal engineering recommendation of the report is that a large flood control dam, estimated to cost $2,600,000, should be constructed at Fanshawe, a few miles upstream from London, in conjunction with several smaller control structures. Integration of such engineering measures and forestry practices is stressed.

Discuss flood control for Wabash valley

A new flood control system for northern Indiana's Wabash basin came in for discussion at Logansport, Ind., recently, as representatives of cities in the area conferred with Army Engineers on possible methods of preventing an average $3,000,000 high-water loss.

The program would include construction of several retention reservoirs on tributaries of the rivers, some of the reservoirs being multiple-purpose, providing permanent recreational pools, water supply and flood control features.

Contract let at Akron for new Erie station

The final contract for the erection of a new Erie Railroad station at East Exchange Street and Broadway, Akron, Ohio, has been awarded to the Bates & Rogers Construction Co. of Chicago. The total cost of the project is placed at $354,729 as compared with last summer's original estimate of $300,000. The contractors hope to have the new station ready for use early next spring.

Another new railroad passenger station project for Akron, to be built by the B. & O. and Pennsylvania railroads, is still awaiting approval by the Civilian Production Administration.

New levee construction to start at Cairo, Ill.

New construction of levees along the Ohio River in the Cairo, Ill., area to cost $1,300,000 will begin next month, according to an Army Engineer announcement. The Cairo levees will be broadened and raised several feet and part of the low land behind the embankment will be filled in.

Cairo, at the confluence of the Ohio and Mississippi rivers, has suffered repeatedly from major floods—the worst in January, 1937. Cairo today, is one American city which is walled, with levees and dikes surrounding it. Railroads and highways entering the city can be closed off by gates which are water-tight.

One river improvement makes another necessary

Because dredging work performed some time ago by the U. S. Engineers in the Willamette River at Salem, Ore., caused a shift of the current to the opposite bank, the city has been forced to dig a canal to carry sewage into the present main channel.

The purpose is to eliminate stench arising because of sewer vents that are now above water during low-water periods, but this work is only a temporary measure until the city can launch a planned sewage disposal project.

City Engineer J. H. Davis had to get U. S. Engineers approval before proceeding to comply with residents' demands that the odors be eliminated.

Connecticut survey shows need of better roads

The Connecticut State Highway Department said recently it is making a basic appraisal of the financial requirements of road construction in state towns as an essential to a sound development of town aid. Of 3235 miles of state unimproved roads, only 1140 miles are of a type to provide essential service to farms and dwellings, the survey has shown.

The appraisal involves a complete inventory of unimproved roads to establish mileage of roads in each town accurately and to evaluate the service value and need for improved roads. In 53 towns taken at random for which inventories are completed, there are 854 miles of unimproved roads and only 385 miles of these roads provide essential service the report shows.

OBITUARY

Isaac Harby, 73, retired engineer and builder and former supervising engineer for Defense Plant Corp. division of the Reconstruction Finance Corp. at Schenectady, N. Y., died at Scarsdale, N. Y., Oct. 27. Mr. Harby, a graduate of Union College, had served as engineer for John A. Roebling and Sons Co., Sage Foundation Homes and Bing and Bing. After retiring in 1930, he studied model housing in Vienna, Amsterdam and England. On returning to this country he resumed business in the construction and management of apartment and business properties. He also became construction adviser to the Federal Housing Authority for slum clearance work in New York City. He served in the Spanish-American War with the First Volunteer Engineers. In World War I, he was a coordinator of war industries for the Department of Labor.

Frank C. Sargent, 73, civil engineer, and retired vice-president of Charles H. Tenny & Co., Boston, Mass., public utility engineers, died at South Yarmouth, Mass., Oct. 26. He was formerly connected with the design and construction of Tenney projects, and was chief hydro-electric engineer for the development of the Mongaup Valley project in New York state.

Eric Norden, 76, Wilmington, N. C., civil engineer, died Oct. 25.

David D. Eames, 62, consulting engineer and designer of many power plants died Oct. 25 in Arlington, Mass. He was a graduate of Massachusetts Institute of Technology, 1906.

George Albert Crain, 75, president of Crain Construction Co., Ltd., Ottawa, Ont., died Oct. 24. Many of the public schools and industrial buildings in Carlton County were constructed under his supervision.

Louis A. Benham, 55, traffic engineer in the Ardmore office of the Pennsylvania State Highway Department, died Oct. 9.

Joseph F. Heavey, Sr., 55, chief of the Real Property Management Division of the War Assets Administration and an engineer, died Oct. 7. He attended Pennsylvania State College and served there subsequently as an instructor in building construction. Prior to his WAA position, he was division engineer in the office of defense plants of the RFC. He had been in the construction industry his entire business life.

Jacob Gaertner, 71, a Philadelphia builder and constructor for more than 40 years, died Oct. 18. Mr. Gaertner, as senior partner of the firm of Jacob Gaertner and Son, was active in the construction of homes, churches and industrial plants until his retirement two years ago.

D. B. McCrary, 72 of Asheboro, N. C., who from 1937 until May, 1945, was sixth district commissioner of the North Carolina State Highway & Public Works Commission, died Oct. 28.

Notice of the death of **J. Archer Turner,** 61, chairman of the board of the Turner Construction Co., New York City, arrived as this issue was going to press. An account of Mr. Turner's career will appear in next week's issue.

Calendar of Meetings

NATIONAL

American Public Health Association, 74th annual meeting, Cleveland, Ohio, Nov. 11-15.

American Management Association, autumn production conference, The Palmer House, Chicago, Ill., Nov. 14-15.

American Welding Society, annual meeting in conjunction with the National Metal Congress and Exposition, The Ambassador, Atlantic City, N. J., Nov. 17-22.

Highway Research Board, 26th annual meeting, National Research Auditorium, Washington, D. C., Dec. 5-8.

National Society of Professional Engineers, annual meeting, Atlanta-Biltmore Hotel, Atlanta, Ga., Dec. 7.

American Association of State Highway Officials, annual meeting, Biltmore Hotel, Los Angeles, Calif., Dec. 17-20.

tion, Wisconsin Section, North

American Society of Civil Engineers, Philadelphia Section, Engineers' Club, 1317 Spruce St., Philadelphia, Pa., Nov. 12.

The Associated General Contractors of America, Inc., Carolinas Branch, 26th annual convention, Sheraton Bon Air Hotel, Augusta, Ga., Nov. 10-12.

Southeastern Association of State Highway Officials, annual meeting, Tutwiler Hotel, Birmingham, Ala., Nov. 12-13.

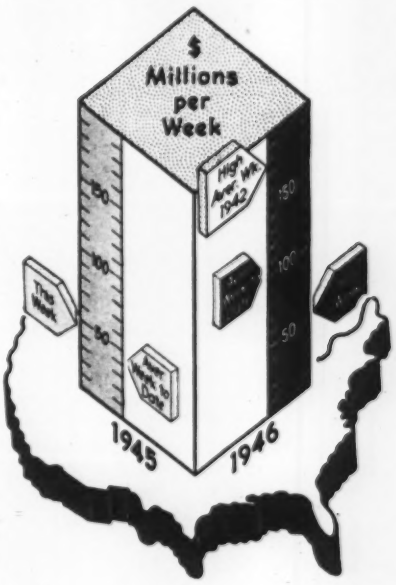
American Water Works Association, Virginia Section, John Marshall Hotel, Richmond, Va., Nov. 14-15.

American Water Works Association, Wisconsin Section, Northland Hotel, Green Bay, Wis., Nov. 15-17.

American Water Works Association, Wisconsin Section, 25th anniversary meeting, Hotel Northland, Green Bay, Wis., Nov. 15-17.

American Water Works Association, North Carolina Section, Hotel Caroline, Raleigh, N. C., Nov. 18-20.

CONSTRUCTION ACTIVITY



As Reported this week to . . .
Engineering News-Record

CONTRACT VOLUME

Continental U. S. Only
(Thousands of Dollars)

	Week of Nov. 7 1946	Cumulative 1946 (45 wks.)	Cumulative 1945 (45 wks.)
Federal	$3,502	$561,830	$708,167
State & Mun.	14,277	1,250,931	323,311
Total Public.	$17,779	$1,812,761	$1,031,478
Total Private	35,179	2,811,815	837,838
U. S. Total..	$52,958	$4,624,576	$1,869,316

WHERE CONSTRUCTION ACTIVITY ORIGINATED THIS WEEK

Dollar Volume (Thousands)

Type of Work	This Week	Cumulative 1946 (45 wks.)	Cumulative 1945 (45 wks.)
Waterworks	$1,743	$97,368	$50,819
Sewerage	2,715	99,131	29,630
Bridges	605	115,804	38,069
Highways	6,519	687,545	196,478
Earthwork, Waterways	206	320,108	47,996
Buildings, Public	5,307	347,990	435,609
Industrial	2,187	942,500	476,281
Commercial ..	29,608	1,690,848	257,954
Unclassified	4,608	323,282	336,480

NOTE: Minimum size projects included are: Waterworks and waterway projects, $22,500; other public works, $40,000; industrial buildings, $55,000; other buildings, $205,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1946 (45 wks.)	Cumulative 1945 (45 wks.)
NON-FEDERAL	.....	$673,224
Corporate Securities	Current	170,596
State and Municipal	.....	339,028
RFC Loans	figures	24,600
REO Loans	.....	60,000
Fed. Aid Highway.	not	79,000
FEDERAL	available	1,049,898
Total Capital	.....	$1,723,122

ENR INDEX NUMBERS

Index Base=100		1913	1926
Construction Cost...	Oct. '46	360.94	173.50
Building Cost.....	Oct. '46	272.74	147.43
Volume	Sept. '46	223	98

CONSTRUCTION REPORTS

Bids Asked — Low Bidders — Contracts Awarded

(Daily service also available—Write for details)

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ELSIE EAVES, Manager J. A. MAHONEY, Reports J. V. McEWEN, M. R. ROESSLER, Statistics

WATER SUPPLY

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 13

N. Y., New York—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., Zone 7, 48 in. plate steel fitting in Shaft 23 chamber, Flatbush Ave. and Schermerhorn St., Brooklyn Boro.

Bids Asked November 13

Minn., Savage—Village, C. S. Stevens, recdr., 9,964 lin. ft. 6 in. class 150 water pipeline, thirteen 4 in. fire hydrants, ten 6 in. gate valves, one connection to 6 in. watermain of former Savage Camp (War Dpt.) eighty ¾ in. corporation cocks and goose necks, 6,000 lin. ft. ¾ in. galvanized service pipeline, etc. $40,000. Plans deposit $2. H. A. Davis, 303 Commerce Bldg., St. Paul, engr. Bids 5/30 rejected. CD 7/1—ENR 7/11.

N. Y., New York—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., Zone 17, watermains 63 Ave., 63 Rd., Horace Harding Blvd., 23, 108 and 110 Sts., Queens Boro; Avenue D, Franklin D. Roosevelt Dr., grounds of Jacob Riis Houses, Lewis and E. 10 Sts., Manhattan Boro.

Bids Asked November 19

Fla., Hollywood—City, c/o Blanche E. Mann, clk., City Hall, furnishing two 96 in. automatic sea water filters; four 9x10 ft. automatic zeolite softeners; two 300 GPM, 50 ft. head, one 400 GPM 40 ft., one 500 GPM, 50 ft. head and one 400 to 750 GPM, 50 ft. head, sea water all bronze pumps; 750 GPM, 175 ft. head, two 750 GPM, 50 ft. head, and one 3,000 GPM, 175 ft. head, standard pumps; 34,500 ft. 10 in. asbestos-cement pipe; approx. 45,000 ft. 6- to 16-in. c.i. pipe, fittings, appurtenances, etc.

Bids Asked November 20

Pa., Harrisburg—Dpt. Property & Supplies, State Capitol Bldg., Harrisburg, pump house with pumps, c.i. water lines, masonry walls, at Laurelton State Village, Union Co. Over $40,000. Plans deposit $2.50. M. C. Krause, 10 W. Fourth St., Williamsport, archt. J. A. Warlow, c/o owner, ch. engr.

Bids Asked December 13

Fla., Dania—City, Dania, WW imprvs. Plans deposit $20. Smith & Gillespie, P.O. Box 1048, Jacksonville, engrs. CD 3/11—ENR 3/21.

LOW BIDDERS

Ala., Hartselle—City, c/o Mayor, water filtration plant addn. and watermain extens., from Sullivan, Long & Hagerty, 2014 Second Ave. N., Bessemer. **$69,780.** Est. $56,000. CD 10/15—ENR 10/17.

Ark., Mena—City, Oct. 23, water supply sys., incl. earthen dam and clearing lake area, from Forsgren Bros., Ft. Smith. **$103,186.** CD 10/11—ENR 10/17.

CONTRACTS AWARDED

Colo., Greeley—City, head work addns. and imprvs. of municipal water sys. in Poudre Canon, to A. S. Horner Co., 118 S. Pecos St., Denver. **$153,182.** Awarded 10/26. CD 6/19—ENR 6/27.

O., New Lexington—Bd. P. Affairs, imprv. WW plant and watermains, to Christopher & Co., Inc., 643 Green Rd., Cleveland, **$132,000**; tank, to Chicago Bridge & Iron Co., Guildhall Bldg., Cleveland, **$32,000.** Awarded 10/15.

Pa., Bethayers (Fox Chase, Phila. P.O.)—Phila. Suburban Water Co., Byn Mawr, pipeline, to Leo Butler, Silver Spring, Md. Over **$22,500.** Awarded 10/24. CD 10/11—ENR 10/17.

S. D., Huron—At office M. E. Walt, city aud., furnishing lime treatment equip. for water softening plant, to Dorr Company, 221 N. La Salle St., Chicago, Ill. **$30,640.** CD 9/27—ENR 10/3.

Tenn., Chattanooga—East Brainerd Utility Dist. E. Brainerd Rd., exten. water sys to Summit & Ooltewah areas and 175,000 gal. reservoir, to Stein Const. Co., 301 Chestnut St. **$160,000.**

Tenn., Jackson—City, c/o P. H. Callahan, comr., City Hall, Jackson, 2 m. g. water tank and 13 mi. water line extens., to Volz Const. Co., Ripley. **$514,675.** Hart, Freeland & Roberts, Third Natl. Bank Bldg., Nashville, engrs. CD 1/31/45—ENR 2/22/45.

SEWERS, WASTE DISPOSAL

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 13

Ind., Ft. Wayne—Bd. P. Wks., two 25,000 GPM sewage pumps for Nebraska Interceptor Sewage Pumping Station on west bank of St. Marys River at Main St., Contr. 38. Plans deposit $10. CD 8/19—ENR 8/22.

Bids Asked November 13

Minn., Savage—Village, C. S. Stevens, recdr., 7,899 lin. ft. 8 in. sanitary sewers, 23 manholes, 1 cast iron pipe siphon, 800 lin. ft. 6 in. Class 150 force main 6,000 lin. ft. 6 in. house service pipelines, 35 g.p.m. lift station. $40,000. Plans deposit $2. H. A. Davis, 303 Commerce Bldg., St. Paul, engr. Bids 5/30 rejected. CD 7/1—ENR 7/11.

Bids Asked November 15

Illinois—Ill. Div. Hys., Springfield, storm sewers, sidewalks, etc., 10.049 mi. Sect. 3249T and 3249T-1, S.B.I. Route 1, Distr. 10, Cook Co. Plans deposit $10. W. W. Polk, ch. engr.

Bids Asked November 18

Mich., Grand Ledge—City, City Hall, sanitary sewers, sewage pump. station. Plans deposit $10. Hamilton-Weeber, 356 Houseman Bldg., Grand Rapids, engrs.

Bids Asked November 25

Kan., Hope—City, at office Mrs. W. L. Boyd, clk., sanitary sewerage sys. and sewage disposal works, Wilson & Co., 223 N. Santa Fe St., Salina, engrs.

Bids Asked December 6

★**Ill., Bloomington**—City, City Hall, trunk sewer rehabilitation and relief sewer imprvs. $2,300,000. Plans deposit $50. Warren & Van Praag, Inc., Standard Office Bldg., Decatur, engrs. CD 7/19/44—ENR 7/27/44.

LOW BIDDERS

★**Fla., Daytona Beach**—City, Oct. 21, from Okeechobee Constr. Co., 140½ Stockton St., Jacksonville, sewers Part 1, **$100,647**; Part 2, **$114,458*****from Ivey H. Smith Co., 1525 San Marco Blvd., Jacksonville, Part 4, **$153,551**; Part 5, **$150,660**; Part 7, **$191,492***** from Murphy Constr. Co., 192 Dyer Ave., West Palm Beach, Part 8, **$363,156*****from W. D. Owens, Clearwater, Part 10, **$480,543.** Received no bids Oct 21, sewers, Parts 3, 6 and 9. CD 10/7—ENR 10/10.

Okla., Westville—City, Oct. 15, sewage disposal plant, from Liffert Bros., 2800 N. Santa Fe St., Oklahoma City. **$75,187.** Est. $66,000. CD 10/9.

Pa., Johnstown — City, Municipal Auth, project indefinitely postponed, garbage and rubbish incinerator. **$250,000.** William A. Goff, 1617 Penna. Blvd., Phila., consult. engr. H. Lee Wilson, city engr. CD 3/19/45—ENR 4/5/45.

CONTRACTS AWARDED

Kan., Salina—City, storm sewers, to H. J. Taylor, United Bldg. **$125,703.** Bids 10/14. CD 10/7.

S. D., Huron—M. E. Walt, city aud., furnishing concrete storm water sewer pipe to South Dakota Concrete Prod. Co., Watertown. **$63,825.** CD 9/27—ENR 10/3.

Tenn., Memphis—City, sanitary sewers in 12 sub-divisions, to F. D. Harvey & Co., 688 S. Bellevue St. **$114,029.** CD 10/11—ENR 10/17, under L.B.

Tex., Galena Park—City, sewage disposal plant and 15,000 lin. ft. 6- to 10-in. pipe, to Henderson Bros., 7051 Chocolate Bayou, Houston, approx. **$51,000** and **$42,000**, respectively. CD 3/12—ENR 4/4.

PROJECTS COVERED

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks $22,500; other public works $40,000; industrial buildings $55,000; other buildings $205,000.

Classes of Construction

(Name in order of Listing)

Water Supply
Sewers, Waste Disposal
Bridges
Streets & Roads
Earthwork, Waterways
Latin America
Public Buildings
Commercial Buildings
Industrial Buildings
Unclassified

Stages Reported

PROPOSED WORK: Including appointment of engineers or architects.

BIDS ASKED (new announcements only). For full calendar, see also preceding issues of ENR.;

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Symbols and Abbreviations Include:

♦ Federal Government
★ Project of $1,000,000 or over.
ENR Engineering News-Record
CD Engineering News-Record Construction Daily

BRIDGES

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 13

Connecticut—State Hy. Dpt., W. J., comr., Hartford, twin-span welded steel bridge and 985 ft. rolled bank gravel surfacing approaches over Wilbur Cross Pkwy. at Skiff St., Hamden; two span rolled beam steel bridge and 950 ft. macadam approaches, over Wilbur Cross Hy., Deming Rd., Manchester.

Bids Asked November 15

Illinois—State Div. Hys., Springfield, fabricating, del. f.o.b. Seehorn, structural steel for I-Beam superstructure bridge over Pidgeon Creek, Sect. 42F, Proj. F-108 (8), F.A. Route 36, Dist. 6, Pike Co.; fabricating, del. f.o.b. Reuters Siding structural steel for I-Beam super-structure bridge, Sect. 202V-F, Proj. U-242 (6), F.A. Route 4, Dist. 8, Madison Co.; rein.-con. girder bridge and paved approaches, Sect. 34X-B, Proj .U-1 (25), S.B.I. Route 6, Dist. 1, DeKalb Co.; rein.-con. substructure and erecting I-beam superstructure bridge, Sect. 202V-B, Proj. U-242 (6), F.A. Route 4, Dist. 8, Madison Co.; rein.-con. culvert, rein.-con. girder bridge, Sect. 43B, Proj. F-108 (8), F.A. Route 36, Dist 6, Pike Co.; continuous steel I-Beam bridge over Spring Creek, Sects. 50B and 51B, Proj. F1-54 (3), S.B.I. Route 2, Dist. 5, Macon Co. Received no bids Aug. 9, bridge Pike Co.; received no bids Oct. 18, bridge Macon Co. Plans deposit $10 each. W. W. Polk, ch. engr. CD 8/26—ENR 8/22.

Bids Asked November 19

Virginia—State Hy. Dpt., Richmond, bridge over Holman Creek and 4.29 mi. paving Route 260 in Shenandoah and Rockingham Counties.

LOW BIDDERS

Indiana—State Hy. Comn., Indianapolis, Oct. 29, 2 span 80 ft. rein.-con. arch bridge, Monroe Co., from G. H. Allen, 804 N. St., Vincennes. **$57,440.** Est. $64,603. CD 10/11—ENR 10/17.

Kansas—State Hy. Dpt., Mankato, rejected bids Oct. 11, Bridge Station 32 plus 27, McPherson Co., L.B. **$7,742**; Bridge, Station 7 plus 07, Chase Co., L. B. **$5,436.** CD 10/2—ENR 10/10.

New York—Bureau Contrs. & Accounts, Albany, Oct. 30, bridge on 3.4 mi. Broome and Tioga Counties, from Tripple Cities Constr. Co., 17 Tompkins St., Binghamton. **$486,737.** Est. $526,000. CD 10/15—ENR 10/17.

STREETS AND ROADS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 13

Connecticut—State Hy. Dpt., Hartford, 24,750 ft. rolled bank graveling 6 roads in Colchester, Saybrook, Hebron, Suffield and Chaplin; traffic bound graveling 2,085 ft., Mill Ave., on Wilbur Cross Parkway, Meriden.

STREETS AND ROADS (Bids Asked, Cont'd.)

Bids Asked November 12

N. Y. Brooklyn—President Brooklyn Boro, Boro Hall, Zone 2, grading, curbing, flagging, asphalt on 6 in. concrete paving Stanley Ave., E. 42 and E. 43 Sts.

Bids Asked November 13

★**New York**—Bureau Contra. & Accounts, Albany, reconstructing 12.69 mi. Rte. 20 between Canaseovia and Morrisville, Madison Co. $2,491,000; 6.33 mi. Rte. 33 between Bergen and North Chili, Monroe and Genesee Counties, $604,000; 1.49 mi. Conduit Blvd., Rte 27, vicinity of Freeport, Nassau Co. $316,000; 16.15 mi. Rte. 11, between Moores and Ellenburg, incl. short section near Perry Mills, Clinton Co., $1,746,000; grading, drainage 0.28 mi. Bronx River Parkway near Gunhill Rd., Bronx Co. $853,000; pile fdns., abutments and walls on 0.86 mi. section Brooklyn-Queens Expressways Meeker Ave. Viaduct between Metropolitan and Kingsland Aves., Kings Co. $983,000.

British Columbia—Minister Dpt. P. Wks., Victoria, reconstructing 3.8 mi. Southern Trans-Provincial Hy., Rock Creek, $300,000, A. L. Carruthers, Dpt. P. Wks., Victoria, engr.; reconstructing Hy. Fort Steele-Wardner section of Southern Trans-Provincial Hy., $400,000, Arthur Dixon, Parliament Bldgs., Victoria, engr., for Province of British Columbia, Victoria. Plans deposit $10 each.

Bids Asked November 15

Illinois—State Div. Hys., Springfield, bituminous surfacing 2.625 mi. Sect. 104RS, Proj. F-116 (2), S. B. I. Route 78, JoDaviess Co., 1.35 mi. Sect. 17RS, S. B. I. Routes 33 and 1, Distr. 7, Crawford Co; grading 3.71 mi. Sect. 5A, Proj. S-76 (1), F. A. S. Route 753, Distr. 4, Calhoun Co.; concrete paving 3.29 mi. Sect. 5-2, Proj. F-15 (10), F. A. Route 14, Jackson Co.; pavement crushing 16.95 mi. Sect. 16R-1, 17R-2, 18R-1, 20R-1 and 21R-1, F. A. Route 5, Distr. 4, McLean and Logan Counties; 10.17 mi. Sect. 14R-1 and 15R-1, F. A. Route 5, Distr. 4, McLean Co.; 12.4 mi. Sect. 12R-3 and 13R-1, F. A. Route 5, (U. S. Route 66), Livingston and McLean Counties, bituminous resurfacing 0.65 mi. Sect. 20RS and 15RS, Proj. U-232 (3), S. B. I. Routes 15 and 37, Distr. 7, Jefferson Co. Rejected bids Aug. 9, imprv. Jefferson Co., $45,003. Plans deposit $10 each. N. W. Polk, ch. engr. CD 8/14—ENR 8/22.

Bids Asked November 19

Virginia—State Hy. Dpt., Richmond, paving 1.451 mi. near Callaghan, Alleghany Co.

LOW BIDDERS

Calif., Los Angeles—City, City Hall, grading, asphaltic concrete paving, imprv. Sepulveda Blvd., temporary by-pass, Century Blvd. to Imperial Hy., from Frank T. Hickey, Inc., 1645 Allesandro St. $62,492. L. Aldrich, City Hall, city engr.

D. C., Wash.—District Comrs., District Bldg., Oct. 24, imprv. roadways various streets, from McGuire & Rolfe, 1401 First St. S. E. $109,089.

D. C., Wash.—District Comrs., District Bldg., imprv. roadway S. Capitol St. from M St. to Potomac Ave., incl. approx. 18,200 sq. yd. 8 in. rein.-con. paving and 5,800 lin. ft. cement curbing from Helsing Bros., Inc., 835 Woodward Bldg. $115,013. Bids 10/28.

Indiana—State Hy. Comn., Indianapolis, Oct. 29, imprv. 1.233 mi. Gibson Co., from W. L. Magaw, Hawkins Rd., Richmond, $88,806, est. $97,411 ***2.524 mi. Vanderburg Co., from Feizel Constr. Co., 402 Court Bldg., Evansville, $251,707, est. $259,250***4.098 mi. Davies Co., from Green Const. Co., Oaktown, $231,618, est. $235,226 Rejected bids Oct. 29, imprv. 1.118 mi. Pike Co. L. B. $139,171. CD 10/11—ENR 10/17.

Iowa—State Hy. Comn., Ames, received no bids Oct. 15, imprv. 2.955 mi. S0301 (2) and 1.000 mi. S-901 (3), both Palo Alto Co. CD 9/30—ENR 10/3.

Kansas—State Hy. Dpt., Mankato, rejected bids Oct. 11, imprv. 4.442 mi. Jewell Co., L. B. $7,623; 5 mi. Cloud and Mitchell Counties, L. B. $9,583; 4.983 mi. S. 301 (2) L. B. $7,615, 2.966 mi. S. 302 (2) L. B. $4,622; 3.123 mi. S. 461 (1) L. B. $4,680, all foregoing Jewell Co.; 11 mi. S. 224 (1) L. B. $17,199, 7.270 mi. S. 226(1) L. B. $9,889, both Lincoln Co.; 1.018 mi. S 273(1) L. B. $6,554, 1.028 mi., S 273 (1) L. B. $1,494, both McPherson Co.; 1.134 mi. S. 393 (1) L. B. $9,576, 4.075 mi., S. 406 (1) L. B. $12,548, both Chase Co. CD 10/3—ENR 10/10.

Louisiana—State Dpt. Hys., Baton Rouge, Oct. 22, imprv. 13.2 mi. East Baton Rouge and East Feliciana Parishes, 1.2 mi. Lafayette Parish, and 19.35 mi. West Feliciana Parish, from Pierson Constr. Co., 1007 Louisiana Natl Bank Bldg., Baton Rouge. $98,707. CD 10/10—ENR 10/17.

Massachusetts—Comm. of Mass., 100 Nashua St., Boston, reconstructing Hy. Chap. 90, in Boston, from A. Singarella & Son, 22 A. Tremlett St., Dorchester. $117,266.

Minnesota—State Hy. Dpt., St. Paul, rejected bids Oct. 11, imprv. 4.8 mi. road between Trunk Hy. 46 in Northome and 4 mi. east, SP 3602-04 (TH 1-160) and SP 3607-05 (TH 46-165), S 224 (1) and S 130 (2). L. B. $160,606. CD 9/25—ENR 10/3.

★**New York**—Bureau Contra. & Accounts, Albany, Oct. 30, imprv. 9.18 mi. Washington Co., from Collins Bros., 17 Talmadge Rd. Mechanicville, $507,882 est. $540,000***14.02 mi. Jefferson Co. from Warren Bros. Roads Co., 38 Memorial Dr., Cambridge, Mass., $575,995 est. $580,000***9.22 mi. Hamilton Co. from Bero Eng. & Constr. Corp., McKnightly Bldg., Buffalo, $949,494, est. $973,000***1 mi. Kings Co., from Slattery Contg. Co., Inc., 72-02 51 Rd., Woodside, $356,914 est. $367,000***2.47 mi. Alleghany Co. from Parlor City Constr. Co., 30 Odell St., Endicott, $414,871 est. $433,000 ***3.97 mi. Cortland Co., from C. D. Murray Co., Inc., 701 Wescott St., Syracuse, $415,908 est. $413,000***3.37 mi. Onondaga Co., from D. W. Winkelman, Heffernon Bldg., Syracuse, $828,786 est. $930,000. No bids received imprv. 6.22 mi. Owego-Candor Rd., Tioga Co. CD 10/15—ENR 10/17.

North Dakota—State Hy. Dpt., Bismarck, Oct. 25, imprv. 0.403 mi. Morton Co., from Clyde Coman, Bismarck. $160,033. CD 10/17 —ENR 10/24.

Virginia—Dpt. Hys., Richmond, imprv. 0.26 mi. King William Co., from H. Barksdale, Petersburg, $38,887. Est. $38,887. Will readvertise. CD 10/3—ENR 10/10.

CONTRACTS AWARDED

Ga. Savannah—City, resurfacing Drayton, Gaston, Wheaton and Broughton Sts., to Espy Paving & Const. Co., 108 E. Bay St. $77,401.

Iowa—State Hy. Comn., Ames, imprv. 5.024 mi. S-947 (1), Monroe and Wapello Counties to Peter Kiewit Sons Co., 1024 Omaha National Bank Bldg., Omaha, Neb. $67,484. Awarded 10/22. CD 9/30—ENR 10/3.

Michigan—State Hy. Dpt., Lansing, concrete paving 4¼ mi. U. S. 25 Macomb Co., to Julius Poath & Son, Co., 702 Transportation Bldg., Detroit. $625,992. CD 10/16—ENR 10/24, under LB.

Minnesota—State Hy. Dpt., St. Paul, grading 3.8 mi. between St., James and 3.8 mi. north, SP 8302-02 (TH-84), S 313 (1), to Brown & Lequil, Mankato. $51,395. Bids 10/11. CD 9/25—ENR 10/3.

Pa., Phila—Sears Roebuck & Co., Roosevelt Blvd., & Adams Ave., paving parking lot, lighting and drainage, to Fri-County Constructors, Inc., Elkins Park. Over $40,000. Awarded 10/24 The Ballinger Co., 105 S. St., Phila., engrs. and archts.

EARTHWORK, WATERWAYS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 12

†**N. J., Bayonne**—U. S. Eng., 120 Wall St., New York, Zone 5, N. Y., dredging channel on north side of U. S. Navy Supply Base. Serial W-30-075-47-37.

B. C., West Vancouver—P. D. Willoughby, mgr. British Pacific Properties Ltd., Marine Bldg., Vancouver, clearing, grubbing, grading in Capilano Estates area of West Vancouver. $100,000. Plans deposit $25. W. G. Swan, 814 Birks Bldg., Vancouver, engr.

Bids Asked November 13

Louisiana—Bd. Comrs., Fifth Levee Dist., Tallulah, constructing Lake Concordia Floodgate.

Bids Asked November 18

Pa., Phila.—Delaware River Joint Comm., Camden Plaza, Camden, N. J., dredging and steel bulkhead, Delaware River. $100,000. Extended date. CD 10/11—ENR 10/17.

Bids Asked November 19

Ark., Osceola—Elliott Sartain, Marked Tree, cleaning approx. 25 mi. ditches, 225,000 cu. yd. excav. R. R. Litkins, Marked Tree, engr.

Bids Asked November 25

†**Arizona** — Bureau Reclamation, Kingman, 8 six-room and 12 five-room residences at Davis Government Camp, Davis Dam Project, Arizona-Nevada, Spec. 1508. W. R. Young, ch. engr.

†**Idaho**—Bureau Reclamation, Denver, Colorado, furnishing, del. f.o.b. cars shipping point or f.o.b. cars Cascade, one 12x13.38 ft. fixed-wheel gate for installation in outlet works at Cascade Dam, Payette Div., Boise Proj., Spec. 1506. W. R. Young, ch. engr.

†**Oklahoma** — Bureau Reclamation, Altus, earthwork, structures, and surfacing for reconstructing Oklahoma State Hy. 9, Altus Reservoir, Altus Proj., Spec. 1510.

Bids Asked December 2

†**California**—Bureau Reclamation, Redding installing Penstocks 1, 2 and 5 for Shasta Dam, Kennett Division, Central Valley Proj., near Coram, Spec. 1514. W. R. Young, ch. engr.

Bids Asked December 3

†**California**—Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Redding, one horizontal 7,500 gal. oil storage tank and one vertical 500 gal. oil storage tank for 230 KV switch yard, Keswick Powerplant, Central Valley Proj., Spec. 1513. W. R. Young, chf. engr.

Bids Asked December 5

†**California**—Bureau Reclamation, Coachella, earthwork, canal lining and structures, Station 6106 plus 06, to Station 6517 plus 00, Coachella Canal, All American Canal System, near Indio. Over $750,000. Plans deposit $2.50.

LOW BIDDERS

†**Arizona-California** — Bureau Reclamation, Federal Bldg., Yuma, Ariz., rejected bids July 3, earthwork canal lining and structures, Station 6106-6 to Station 6267-10, Spec. 1379, L.B. $641,009; Station 6367-10 to 6317-00, Spec. 1381, L.B. $581,640, both Coachella Canal, All American Canal System, near Indio, Calif. CD 7/29—ENR 8/1.

N. Y., Southampton—Bureau Contra. & Accounts, Albany, Oct. 30, steel sheet pile jetties, Southampton Beach, Suffolk Co., from Federal Foundation Co., c/o P. J. Carlin Co., 101 Park Ave., New York, Zone 17. $59,756. CD 10/14 —ENR 10/17.

†**Virginia**—U. S. Eng., Norfolk, Oct. 29 bulkheads and revetment on Chesapeake and Albemarle Canal at Great Bridge, Norfolk Co., from W. T. Stonecypher, 120 N. Fairwater Dr., Norfolk. $54,052. Est. $74,932. CD 10/4 —ENR 10/10.

CONTRACTS AWARDED

Calif., Los Angeles—Southern Calif. Telephone Co., 740 S. Olive St., excavating, backfilling trench along underground and buried cable route, Mt. Harvard to Mt. Wilson, Los Angeles Co., to Macco-Robertson Co., 811 Paramount Blvd., Clearwater. Approx. $48,146.

Conn., Guilford—State Comptroller, State Capitol, Hartford, earth, stone dike, timber tide gate dike, etc., at Great Harbor, to Charter Oak Constr. Co., 525 Main St., Hartford. $33,789. Bids 9/26.

Fla., Miami Beach—Hotel Martinique, Collins Ave., 2 groins on Ocean front, to G. E. Bunnell, Inc., 79 N.E. 20 Terrace, Miami. Est. $25,600. Zurwelle & Whittaker, 605 Lincoln Rd., engrs.

Ia., Ft. Dodge—Webster Co., Ft. Dodge, drainage work, to Paul Const. Co., Ft. Dodge. $28,346. Bids 10/18. D. J. Rhodes, Ft. Dodge, co. engr.

AIRPORTS & AIRBASES

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

LOW BIDDERS

N. Y., Idlewild—LIGHTING CONDUIT SYSTEM—Comr. Marine & Aviation, Pier A, foot of Battery Pl., North River, New York, Zone 4, Contr. 2496, lighting and conduit sys. for Van Wyck Approach Road at Municipal Airport at Idlewild, all incidental work, Contr. 33, from Jandous Electric Constr. Corp., 219 E. 40 St., New York, Zone 17. $148,940. CD 10/8—ENR 10/10.

CONTRACTS AWARDED

Fla., Miami—AIRPORT IMPRVS., etc.—Bd. Comrs., Dade Co., Courthouse Bldg., airport imprvs., to Belcher Oil Co., 1221 Biscayne Blvd. $134,180. Awarded 9/23. E. Rader, 1301 Courthouse, engr.

Mich., Grand Marais — RUNWAY — Mich. Dpt. Aviation, Lansing, 4,600 ft. runway, 500 ft. wide, to P. Miller, 109 Leonard St. N.W., Grand Rapids. $82,690.

Mich., Houghton — AIRPORT — Mich. Dpt. Aeronautics, Lansing, airport, incl. two 500x5,800 ft., runways, to L. B. Thornton Const. Co., Hancock. $235,960.

Alta., Lac LaBiche—AIRPORT—Dpt. Transport, Ottawa, Ont., development airport, grading, smoothing, fencing, rolling, stumping, etc., to Western Constr. Co. Ltd., Edmonton. About $140,000. H. A. McIntyre, c/o owner, engr.

LATIN AMERICA

Mexico — Gas Industrial de Monterrey, Monterrey, 135 mi. 14 in. natural gas pipeline carrier between Reynosa to Monterrey, to Contratistas del Norte, S. A. Monterrey, Mexico (affiliate of O. C. Whitaker & Co., Dan Waggoner Bldg., Fort Worth, Tex., U.S.A.). Approx. $2,650,000. CD 7/2—ENR 8/11.

Venezuela—Creole Petroleum Corp., La Salina, 2 sections (20 mi. each) 24 in. crude oil pipeline carrier, at Amuay Bay on Paraguana Peninsula, and 2 sections (56½ mi. each) 26 in. crude oil pipeline radiating from La Salina, near Paraguana Peninsula, to Williams Bros. Corp., National Bank Tulsa Bldg., Tulsa, Okla., U.S.A. Approx. $3,000,000 and $6,250,000 respectively. CD 7/19—ENR 8/8.

PUBLIC BUILDINGS

Last Minute Construction Reports. Construction Reports received since this section went to press will be found in

BIDS ASKED

Bids Asked November 13

Minn., Thief River Falls—City, P. G. Pederson, clk., municipal power plant imprvs., furnishing, installing a Diesel engine unit of from 2,500 to 2,800 hp. $150,000.

N. Y., Yonkers—Bd. Educ., Administration Bldg., altering high school into Saunders Trade School Annex, Terrace Pl. $215,000. Plans deposit $25. Erik Kaeyer, 30 S. Bway., archt. CD 10/30—ENR 11/14.

PUBLIC BLDGS. (Bids Asked, Cont'd.)

Bids Asked November 18

D. C., Wash.—Distr. Comrs., District Bldg., Wash., D. C., 1 story, office, at D. C. Property Yard, Montana and New York Aves. N. E.

Bids Asked November 19

N. Y., New York—New York City Housing Auth., 122 E. 42 St., Zone 17, Jacob Riis Housing, N.Y.C. 5-3, Ave. D and East River Dr. Extended date. CD 10/7—ENR 10/10.

Bids Asked November 20

★**Pa., Morrisville**—Penn. Dpt. Prop. & Supplies, Harrisburg, and State Navigation Bd., Bourse Bldg., Phila., Navigation School. $1,800,000. Day & Zimmerman, Inc., Packard Bldg., Phila., engr. CD 9/19—ENR 10/3.

Bids Asked November 22

★†**N. D., Minot**—U. S. Eng., Fort Peck, Mont., John Moses Veterans Memorial Hospital. Extended date. CD 10/18—ENR 10/24.

Bids Asked November 25

Ind., Evansville—Bd. School Trustees, Ralph Seiffer, bus. dir., 7 & Locust Sts., 1 and 2 story, 16 classroom, brick, stone, rein.-con. structural steel school. $500,000. Plans deposit $25. Ralph Legeman, 226 Main St., Evansville, archt. CD 12/20/43—ENR 12/23/43.

Bids Asked December 3

†**Wyoming**—Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars shipping point or f.o.b. cars Cody, structural steel, incl. beams, girders, bracing rods, steel expansion joints, anchor bolts to faster steel expansion joints, bearings, field rivets, and turned bolts for bridge at Heart Mountain Powerplant, Shoshone Proj. Spec. 1517. W. R. Young, ch. engr.

Bids Asked December 5

†**Washington**—Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars shipping point or f.o.b. cars Odair, nine 150-kva, single-phase, 60-cycle, 13,200-to 240/120-volt, dry-type, air-cooled transformers; nine 100-kw, 145-volt, 690-ampere, continuous-rating, 0.21-ohm registers; for Units L-1 to L-9, inclusive, Grand Coulee Powerplant, Columbia Basin Proj., Spec. 1511. W. R. Young, ch. engr.

Bids Asked About December 15

★†**N. Y., Peekskill**—U. S. Eng., 120 Wall St., New York, Zone 5, Franklin Delano Roosevelt Hospital, Crugers Park, near here, for Veterans Admin., Vermont Ave. between H and I Sts., N. W., Wash. 25, D. C. $10,000,000. Plans deposit $50. Extended date. CD 10/16—ENR 10/24.

Bids Asked December 21

Ont., Leamington—Hospital Bd., L. Bauman, ch., Talbot St., 2 and 3 story, brick, steel hospital. $225,000. CD 2/14—ENR 5/16.

LOW BIDDERS

★†**D. C., Wash.**—Pub. Bldgs. Admin., 18 and F Sts. N. W., Zone 25, Oct. 29, continued treatment bldg. at St. Elizabeth's Hospital, from Caristo Constr. Corp., 26 Court St., Brooklyn, Zone 2, N. Y. $2,200,000. CD 9/27—ENR 10/3.

Fla., Tallahassee—Bd. Comrs. State Institutions, Tallahassee, rejected bids Sept. 3, interior alterations to State Capitol. CD 8/16—ENR 8/22.

Ga., Dahlonega — Bd. Regents University Sys. of Ga., Atlanta, science bldg. at North Georgia College, from Fennell Const., Box 100, Gainesville. $259,671. Est. $240,000. CD 9/24—ENR 9/26.

Idaho, Warm Springs—Warm Springs State Hospital, general contract dormitory, from Cahill-Mooney Constr. Co., Butte, Mont. $326,720.

Ill., East St. Louis—East St. Louis School Dist., R. L. Campbell, pres. Bd. Educ., E. Barmann, chn., Bldg. Com., 240 N. 6 St., indefinitely postponed, 16 room brick, concrete, stone school. $330,000. CD 4/26—ENR 7/4.

La., Alexandria—State University, G. F. Mathers, purch. agt., Baton Rouge, general contract constructing bldgs. and utility sys. for the School of Vocational Agriculture, from Roland Const. Co., Alexandria. $276,240. C. T. Roberts, Guaranty Bank Bldg., Alexandria, archt. CD 9/11—ENR 9/19.

†**N. J., Camp Kilmer**—U. S. Eng., 120 Wall St., New York, N. Y., Oct. 28, converting barracks into apartments, from Planet Contg. Co., 11 W. 42 St., New York 18, N. Y. $241,900. CD 10/17—ENR 10/24.

†**Tex., Sweetwater**—Veterans Admin., Vermont Ave. between H and I Sts., N. W., Wash. 25, D. C., project abandoned. 500 bed hospital. $3,500,000. CD 6/7/45—ENR 6/14/45.

CONTRACTS AWARDED

Ia., State Center—City, E. Christoffersen, clk., light and power plant imprvs., to Fairbanks-Morse Co., 9 and Harney Sts., Omaha, Neb. $54,841. Bids 10/11. CD 9/24—ENR 9/26.

†**Ind., Gary**—Veterans Admin., 226 W. Jackson Blvd., Chicago, Ill., 2 story, brick, steel, concrete office bldg., to Marcello Geremetta. 515 Bway. Est. $225,000.

Ky., Danville—State, c/o Evans C. McGraw, chf. engr. Div. Eng. & Constr., Frankfort, dairy barn and cold storage plant at State Hospital, to L. C. Miller Co., 1303 W. Oak St., Louisville. $223,643.

Minn., Virginia—City, Water & Light Comn., F. T. Borg, secy., furnishing, installing turbine generator at municipal power plant, to Elliott Co., 213 Baker Bldg., Minneapolis. $139,100. CD 10/24—ENR 10/31, under LB.

Mich., Grosse Pointe—Bd. Educ., Rural Agricultural School, brick, stone, steel, concrete school, to H. M. Martens Co., 2111 Woodward Ave., Detroit. $279,770. CD 9/30—ENR 10/3.

★†**N. M., Albuquerque**—U. S. Eng., Commercial Bldg., housing, at Sandia Base, to R. E. McKee, 1900 Texas St., El Paso, Tex. $2,028,000. CD 10/23—ENR 10/31, under LB.

†**Wyoming**—Bureau Reclamation, Custom House, Denver, Colo., 6 outdoor type circuit breakers for Heart Mountain Switchyard and Garland substation, Shoshone Proj., Spec. 1247, to Pacific Electric Mfg. Co., 5515 3 St., San Francisco, Calif. $51,242. Bids 6/30. CD 6/11—ENR 6/13.

Alta., Medicine Hat—Wartime Housing Ltd., 158 Bay St., Toronto, Ont., 75 houses, to Bird Constr. Co., Ltd., Third Ave. and 14 St., Lethbridge. Approx. $400,000.

B. C., Kamloops—Wartime Housing Ltd., 159 Bay St., Toronto, Ont., 40 addnl. houses, to Kamloops Constr. Co. Ltd., Kamloops. About $220,000. McCarter & Nairne, 1930 Marine Bldg., Vancouver, archts.

COMMERCIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

SOON LETS CONTRACT

Bids Asked November 4

N. Y., Lynbrook—Long Island Water Corp., 337 Merrick Rd., soon lets contract office bldg. $125,000. Lawrence J. Lincoln, 1007 Broadway, Woodmere, archt.

CONTRACTS AWARDED

Ala., Selma—Evans Constr. Co., Merchants Bank Bldg., Mobile, 90 frame, brick houses. Owner builds. $500,000. H. I. Johnstone, 60 St. Francis St., Mobile, archt.

Calif., Hawthorne—Southern Calif. Telephone Co., 740 S. Olive St., Los Angeles, 2 story, rein.-con. telephone bldg. to house central office switching equipment on Birch Ave. near 126 St., to R. J. Daum Constr. Co., 6303 West Blvd., Inglewood. Approx. $600,000. Parkinson, Powelson, Briney, Bernard & Woodford, 410 N. LaBrea Ave., Los Angeles, archts.

Calif., Pasadena—Calif. Institute of Technology, 1201 E. California St., 3 story, 2 bsmnt, 82x51 ft., rein.-con Guggenheim Aeronautical Laboratory addn., to Ray Gerhart, 334 S. Greenwood Ave. Approx. $205,000.

Calif., Van Nuys—Coronet Constr. Co., 5733 Lankershim Blvd., North Hollywood, fifty-six 5 and 6 room frame, stucco dwellings in 12,700 block on Ermilita, Califa, Trara and Hatteras Aves. Owner builds. $443,200. Eisendhtat & Lipman, 1121 S. Hill St., Los Angeles, archts.

Calif., Van Nuys—Green Ivy Homes, 736 N. Highland Ave., Los Angeles, seventy-two 5 room, frame, stucco dwellings, near here, to Finecraft, Inc., 736 N. Highland Ave., Los Angeles. $274,900.

Conn., Glastonbury—Frank Lenti, Chestnut Hill Rd., 25 to 30 frame houses on 10 acres south side, Chestnut Hill Rd. Owner builds. $205,000. CD 10/25—ENR 11/7.

Conn., New Haven—Charles T. Lincoln Co., 746 Chapel St., New Haven, ninety 2 story garden type brick, steel apartments, to Harisco, Inc., 201 Front St. est. $300,000. H. Labov, 201 Front St., archt.

Del., Camden—Walter H. Simpson, Camden, residential development, separate contracts. $205,000.

Del., Rehoboth—Rehoboth Lumber Co., Rehoboth Beach, residential development, separate contracts. $205,000.

Del., Rehoboth Beach—Rehoboth Lumber Co., Rehoboth Beach, residential development, separate contracts. $250,000.

Del., Woodcrest (Wilmington P.O.)—G. H. McGovern, Inc., 207 W. 4 St., Wilmington, residential development, separate contracts. $300,000. J. A. McKibbin, 503 S. Broom St., Wilmington, archt.

Ill., Chicago—Scott Foresman & Co., 625 S. Wabash Ave., 2 story office addn., remodeling 11 story bldg., to Erik Borg, 6649 N. Ridge St. Est. $500,000. Perkins & Will, 309 W. Jackson Blvd., archts. CD 7/26—ENR 8/1.

Mo., University City (St. Louis 5, P.O.)—Milton Constr. & Supply Co., 5886 Easton Ave., Zone 12, twenty-three 1 story 25 x 36 ft. brick bungalows, concrete fdns., frame garages, 8300 block of Richard Ave., own forces. $229,885.

N. J., Paulsboro—Seaboard Housing Corp., 22 Spruce St., Westville, residential development, separate contracts. $250,000.

N. Y., Bayside—Empire Assoc., Inc., c/o Joseph Unger, archt., 138-22 78 Ave., Flushing, twenty-eight 2 story 1-family and fifteen 3 story 2-family homes, 46 Ave., 215 Pl. and 47 Ave. Owner builds. $385,500. CD 9/18—ENR 10/3.

N. Y., Brooklyn—Ocean Constr. Corp., c/o S. L. Malkind, archt., 184 Joralemon St., Zone 2, 32 2 story 2-family houses, 54-80 Brighton Court and 2549-71 Ocean Parkway and 775-801 Avenue Z. Owner builds. $384,000. CD 10/2—ENR 10/10.

N. Y., Flushing—Garron Builders, Inc., c/o S. Paul & Associates, archts, 163-18 Jamaica Ave. Jamaica, 19 two story, 2 family houses, 76 Ave. and 147 St. Owner builds. $247,000. CD 10/2—ENR 10/10.

★**N. Y., Rego Park**—Syndicate, c/o Shampan & Shampan, archts., 26 Court St., Brooklyn, Zone 2, one hundred twenty 1-family houses, Penelope Ave., 76 St., 75 Pl. 75 St., and Juniper Rd. Owner builds. $1,000,000. CD 9/18—ENR 9/26.

O., Lyndhurst—M. Marmorstein, Chester-Ninth Bldg., Cleveland, 2,000-seat theatre, Mayfield Rd. near Richmond Rd., separate contracts.

Ore., Milton—Collier & Harris Constr. Co., 117 S. W. 20 St., Pendleton, 40 dwellings, day labor. $250,000. General Supply & Development Co., Walla Walla, Wash., archt.

Pa., Allentown—G. H. Schnitzer, 35 N. 13 St., residential development, separate contracts. $205,000.

Pa., Ardmore—Francis B. Branagan, 1325 Walnut St., Phila., residential development, separate contracts. $260,000.

Pa., Bethlehem—William Pfoiflo, 1340 Stanley Ave., residential development, separate contracts. $220,000.

Pa., Chester—Brookfield Constr. Co., 455 Argyle Rd., Drexell Hill, residential development, separate contracts. Over $205,000.

Pa., Clifton Heights—Hutchinson Contrg. Co., Clifton Heights, residential and duplex developments, separate contracts. Over $205,000.

★**Pa., Dresher**—Harold F. Chadwick, Dresher, residential development, day labor. $4,250,000.

Pa., Drexel Hill—Jonathan Woodner Co., 69 and Walnut Sts., residential development, Old Lane, separate contracts. $260,000.

Pa., Emaus—Arthur P. Houser, 106 Macungie Ave., residential development, separate contracts. $205,000.

Pa., Hazelton—Nelson D. Gould Sr., 418 E. Carleton Ave., residential development, separate contracts. $205,000.

Pa., Lansdale—Theodosio Colovata, 604 N. Broad St., residential development, separate contracts. Over $205,000.

Pa., Lewistown—William I. Martin, 100 N. Grand St., residential development, separate contracts. $240,000.

Pa., Middletown—Henry W. Graden, Enola, residential development, separate contracts. $350,000.

Pa., Norristown — Francis Jobson, Wayne, residential development, separate contracts. $448,000.

Pa., Paradise Twp. (York P.O.)—Edwin F. Slagle, 1414 W. Poplar St., York, residential development, separate contracts. $220,000.

Pa., Phila.—The Curtis Bailey Co., 69 and Walnut Sts., residential development, Haverford Ave., separate contracts. $500,000.

Pa., Phila.—Fishman & Park, 1740 Georges Lane, residential development, separate contracts. $450,000. Christian H. Fries, 3701 N. Broad St., archt. CD 9/5/45—ENR 9/20/45.

Pa., Phila.—Harry Harrison, 2223 N. Salford St., residential and duplex developments, separate contracts. Over $205,000.

★**Pa., Phila.**—Mal-Win Corp., 1600 Walnut St., residential development, 28, 29, Dover and Newkirk Sts., separate contracts. $1,200,000.

Pa., Phila.—Schwartz & Sukerman, 6237 Germantown Ave., residential development, separate contracts. $250,000. Christian H. Fries, 3701 N. Broad St., archt.

Pa., Schwenksville—W. S. Ridley, Schwenksville, residential development, separate contracts. $205,000.

Pa., Secane—Edwin C. Prichard, Newtown Square, residential development, separate contracts. $290,000.

Pa., Shavertown — Shavertown Builders Inc., Shavertown, residential development, separate contracts. Over $205,000.

Pa., Silver Spring Twp. (Mechanicsburg P.O.)—H. W. Barker, 301 E. Marble St., Mechanicsburg, residential development, separate contracts. $250,000.

Pa., Sinking Spring Heights (Sinking Spring, P.O.)—Earl Hartman, 366 W. Greenwich St., Reading, residential development, separate contracts. $205,000.

Pa., Spring City—Walter M. Carrigan, Spring City, residential development, separate contracts. Over $205,000.

Pa., Springettsbury—Lloyd Sterner, 112 E. Market St., York, residential development, separate contracts. Over $205,000.

Pa., Upper Providence Twp. (Media P.O.)—P. R. Roberts, 16 E. Lancaster Ave., Ardmore, residential development, own forces. $870,000.

Pa., York—Dr. H. W. Zech, 30 S. Queen St., residential development, separate contracts. $220,000.

COMMERCIAL BLDGS. (Contracts Awarded. Cont'd.)

Tenn., Memphis—J. W. Pilley Home Building Service, 787 S. Willet St., 45 brick veneer houses, Fernwood St. in South Memphis, $250,000. 52 brick veneer houses in Kennedy Park subdivision, $250,000. Owner builds.

Tenn., Nashville—Model Homes, Inc., 2001 Blair Blvd., 32 concrete block houses, Vallwood Dr. Owner builds. $225,000.

Tex., Grand Prairie—Elbert Perkins, Sunbeam Ave., Dallas, 100 dwellings, Hensley Park. Owner builds. $550,000. CD 10/28—ENR 11/7.

Tex., Midland—Midland Office Bldg., Inc., Midland, superstructure 7 story, bsmnt. office bldg., to J. W. Bateson, 1103 Irwin-Keasler Bldg., Dallas, approx. $556,800. CD 10/22—ENR 10/24, under LB.

Tex., San Antonio—V. F. Buchek Co., Majestic Bldg., residential development. Owner builds. $400,000. CD 10/25—ENR 11/7.

Alta., Lethbridge—Wartime Housing Ltd., 159 Bay St., Toronto, Ont., 100 houses, to Bird Constr. Co., Ltd., Third Ave. and 14 St. Approx. $550,000.

INDUSTRIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 11

Mich., Detroit — FACTORY — Krecke & Sawell, archts., 220 Bagley Ave., brick, concrete, steel factory addn. for drill plant, for Cogsdill Twist Drill Co., 12950 West 8 Mile Rd. $75,000.

Bids Asked

Conn., New London—PLANT—New London & Mohegan Dairy Co., 75 Jefferson Ave., (selected list bidders) 1 story, bsmnt., machine shop and storage plant for trucks and garage facilities. $55,000. S. B. Berstein, 302 State St., archt.

Ill., Niles—FACTORY—Lighthouse Trailer Co., 631 W. Shubert, foundation for 1 story, 700x250 ft., brick, steel factory. $350,000. Lundstrum & Skubie, 53 W. Jackson Blvd., Chicago, archts.

Ore., Portland—FACTORY—Flintkote Co.'s Pioneer Div., 55 Alameda Sts., Los Angeles, Calif., 1 story, 115x480 ft. steel frame bldg., with corrugated siding, for manufacturing roofing. $278,000. G. P. Swarte, c/o owner, engr. CD 5/27—ENR 6/13.

Pa., Souderton—WAREHOUSE, etc.—Paulsboro Mfg. Co., 1700 Walnut St., Phila., warehouse and office bldg. $400,000. Extended date. The Ballinger Co., 105 S. 12 St., Phila., archts. CD 9/11—ENR 9/19.

Tex., Moss Hill (near Hardin)—PLANT—Texas Gulf Sulphur Co., Moss Hill (near Hardin) 2 steel frame, permanent type mining plant bldgs. and 2 plant addns. $155,000.

Tex., Port Arthur—TERMINAL PLANT—Texas Pipe Line Co., Texas Co. Bldg., Houston, terminal plant. $75,000.

Ont., Trenton—PLANT—Mathers & Haldenby, archts., 96 Bloor St. W. Toronto, 3 story, 19 x 110 ft., steel, rein.-con. plant addn., for Canadian Doughnut Co. Ltd., 127 Dufferin St. $65,000.

Soon Lets Contract

Pa., Phila.—MFG. AND GARAGE—The Ballinger Co., archt., 105 S. 12 St., soon lets contract 3 story, bsmnt., 100x101 ft., mfg. bldg. and 1 story, 33x53 ft. garage, for John E. Syostrom Co., Inc., 1715 N. 10 St. $500,000.

LOW BIDDERS

Del., Claymont—PLANT—General Chemical Co., 40 Rector St., New York, N. Y., rejected bids Aug. 31, plant addn. Over $75,000. Will readvertise. H. Winters, Marcus Hook, Pa., ch. engr. CD 7/25—ENR 8/1.

Pa., Phila—FACTORY, etc.—A. M. Collins Mfg. Co., 226 W. Columbia Ave., project abandoned factory and office bldg. $400,000. CD 5/29—ENR 6/13.

Pa., Phila. — FACTORY — Judson Kerr & Bros., Inc., 5738 Westminster Ave., postponed indefinitely construction factory. $100,000. CD 8/14—ENR 8/22.

CONTRACTS AWARDED

Ala., Pratt City—REPAIR SHOP—Tennessee Coal, Iron & Railroad Co., Brown Marx Bldg., Birmingham, repair shop for Pratt Shop rail transportation works. Own forces. $97,000.

Ark, Bentonville—PLANT—Arkansas Farm Bureau Co-operative Inc., c/o W. L. Burton, pres., Bentonville, poultry processing plant, to E. V. Bird Constr. Co., Fayetteville. Est. $450,000. CD 6/28—ENR 7/11.

Fla., Coral Gables—PLANT—Renuart Lumber Yards, Inc., 226 Alhambra Circle, 1 story, 100x200 ft., concrete, steel, lumber mfg. plant, to Deigaard & Preston Builders, Coral Gables. Est. $80,000. Donavan Dean, Lakeland, archt.

Ga., Atlanta—AUTO REPAIR and STORAGE GARAGE—Roy Livingston, 98 Cone St., auto repair and storage garage, to Griffin Const. Co., 452 Spring St., N. W. $129,751. Bids 10/8. CD 9/27—ENR 10/3.

Ga., Atlanta — MECHANICAL — Atlanta Journal, Forsyth St., mechanical bldg., to J. A. Jones Const. Co., Walton Bldg. Est. over $100,000. Bids 10/8. CD 10/1—ENR 10/3.

Ga., Macon — PLANT — Maco Realty Co., Macon, 1½ story, 380x400 ft., brick, concrete, steel box mfg. plant, to James Stewart & Co., 230 Park Ave., New York, N. Y. Est over $100,000.

Ill., Chicago—ENGINE—Chicago, Milwaukee, St. Paul & Pacific R.R., K. F. Mystrom, ch. engr., 516 W. Jackson Blvd., 1 story, brick, steel, concrete diesel engine bldg., to Ragnar Benson, Inc., 4744 W. Rice St. Est. $117,975. A. O. Lagerstrom, c/o owner, archt.

Ill., Cicero—SHOP—John Brennan & Co., 5859 Ogden Ave., masonry contract 1 story, 100x160 ft., brick, concrete shop, to Frank Kesman & Sons, 3144 Sunnyside St., Brookfield; plumbing, to Nicholas Ciprians, 2231 Laramie St. Est. $70,000. Harmon & Guilty, 72 S. La Grange Rd., La Grange, archts.

Ill., Hillside—PLANT—Aluminum Co. of America, 520 N. Michigan Ave., 1 and 2 story, brick, steel, concrete die cast plant, 8 bldgs., to J. Griffiths & Son, 228 N. LaSalle St.

Ia., Des Moines — GARAGE — Fruehauf Trailer Co., 10940 Harper St., Detroit, Mich., trailer garage, 20 and Dean Sts., to Collins Const. Co., SW. 12 and Burlington Sts. Approx. $130,000.

Kan., Wichita — PLANT — Kraft Food Co., 5000 N. Prestigo St., Chicago, Ill., 1 story, 100x142 ft. distribution plant, to Del E. Webb Const. Co., 75 E. Wacker St., Chicago Ill. Est. $100,000.

Md., Baltimore—PLANT—Albert F. Goetz, 2401 Sinclair Lane, 3 story, 52 x 75 ft., brick, steel, concrete meat packing plant addn., to Leland Constr. Co., 200 E. 25 St. About $100,000.

Mass., Aldenville—PLANT—Raoul Ducharme, Aldenville, brick, steel, concrete plant. Owner builds. $70,000.

Minn., Duluth — CREAMERY — Bridgeman Creamery Co., Terminal Bldg., general contract creamery, 1330 E. Superior St., to J. D. Harrold, 405 E. Superior St. Est. $100,000.

Minn., Minneapolis—PUMPING STATION and BULK PLANT—Standard Oil Co. of Indiana, 1300 Harmon Pl., general contract pump. station and bulk plant incl. warehouses, operation bldgs., offices in town of Rose, Ramsey Co., to W. W. Magee Co., 1800 N. Snelling Ave., St. Paul. Over $40,000.

Minn., Minneapolis—WAREHOUSE—Waterman-Waterbury Co., 1121 N. E. Jackson St., general contract 1 story, 76x171 ft., concrete block, steel warehouse addn., to Adams Constr. Co., 2837 Girard Ave., S. Est. $80,000. M. A. Pocock, 615 2nd Ave. S., archt.

Mo., St. Louis—SERVICE, etc.—Firestone Tire & Rubber Co., 4232 Forest Park Blvd., Zone 8, 1 story, 48x180 ft., brick, concrete service and store bldg., 3636 S. Grand Blvd., separate contracts.

Mo., St. Louis—PLANT—J. F. and C. E. Higgins, 5165 Easton Ave., Zone 12, 1 story, 74x100 ft., brick, concrete, composition roof sheetmetal fabricating plant, 1515 Academy Ave., to J. F. Higgins & Co., 5165 Easton Ave. C. N. Jacobs, 4540 Morganford Rd., Zone 16, archt.

Mo., St. Louis—WAREHOUSE—Madison St. Terminal Warehouse Corp., R. L. Ferer, pres., 2028 N. Main St., Zone 6, 1 story, brick, steel, concrete, aluminum warehouse, concrete fdn., on 230x240 ft. site bounded by Chambers, Madison and Front Sts., to W. H. & N. Cunliff Co., 3320 Lindell Blvd., Zone 3. Est. about $175,000.

N. J., Deepwater—PLANT—E. I. duPont de Nemours Co., Inc., du Pont Bldg., Wilmington 98, Del., detergent plant, own forces. $556,800. Granville M. Read, ch. engr. CD 10/17—ENR 10/31.

N. J., Trenton—WAREHOUSE—Alexander Rubber Co., 20 E. Front St., warehouse, incl. second floor parking lot, separate contracts. Over $55,000.

N. J., Trenton—PLANT—Fairfacts Co., Inc., Fairfacts Ave., plant addn., separate contracts. $55,000. H. G. Aitken, 203 E. State St., archt.

O., Bellevue — FORGE — National Farm Machinery Co., Bellevue, 1 story, 65x380 ft., brick, steel, concrete forge addn., separate contracts. $70,000. Klein Structural Iron Wks., Bellevue, engr.

O., Lorain—FACTORY—Thew Shovel Co., Fulton Rd. and W. 28 St., design and construction factory, to Austin Co., 16112 Euclid Ave., Cleveland. Est. $175,000. CD 10/9—ENR 10/31.

Ore., Medford—PLANT—Northern Refrigeration Co., 410 S. Fir St., Medford, cold storage fruit bldg., to H. Goldsmith, Ross Lane, Medford. $75,141. R. J. Keeney, Medford, archt. Awarded 10/21.

Pa., Beaver Falls—FACTORY—Armstrong Cork Co., Lancaster, 1 story, L shaped, 19x32 ft. and 19x60 ft., steel wool factory, to D. F. Nellis & Sons Co., 525 St. Clair Ave., East Liverpool, O. Est. $80,000.

Pa., Charleroi—STORAGE GARAGE—Reick McJunkin Dairy, 1345 Forbes St., Pittsburgh, 1 story, 50x138 ft. storage garage, to Rust Eng. Co., Clark Bldg., Pittsburgh. Est. $80,000. CD 11/15/45—ENR 11/22/45.

Pa., Chester — FACTORY — South Chester Tube Co., Front and Thurlow Sts., 148x600 ft., brick, concrete factory, concrete fdn., to Frederick Massiah, 1342 Cypress St. $78,500.

Pa., Marcus Hook—REFINERY—Sun Oil Co., 1608 Walnut St., Phila., repairing refinery, own forces. $300,000. CD 10/24—ENR 11/7.

Pa., New Kensington—FACTORY—General Electric Co., New Kensington, approx. 88x100 ft., brick, steel mfg. bldg. addn., to Minotte Bros., Hays St., Pittsburgh. Est. $60,000.

Pa., Phila.—PRINTING PLANT—Beck Engraving Co., 108 S. 7 St., printing plant, to R. M. Shoemaker, 1619 Sansom St. $85,000. Eggly Engineers, 1500 Walnut St., engrs. and archts. Awarded 10/10. CD 11/5/45—ENR 11/15/45.

Pa., Phila.—PLANT—Franklin Research Co., 5132 Lancaster Ave., 2 story, brick, concrete mfg. bldg. to F. B. Davis & Son, Inc., 240 N. 16 St. $59,000. Awarded 10/18.

Pa., Phila. — PLANT — William Moland's Sons, Laurel and Hancock Sts., meat packing plant, to Rafferty-Kennedy Co., Broad and Jerome Sts. $58,000. Awarded 10/7. Smith Brubaker & Egan, 30 N. LaSalle St., Chicago, Ill., archts.

Pa., Phila.—PLANT—Ordnance Gauge Co., 4030 Frankford Ave., 2 story, 47x110 ft., brick mfg. bldg. addn., to G. A. Stevenson, 4701 Pine St., $75,000. Awarded 10/18. Lewis J. Cowan, 1237 Market St., archt.

Pa., Pittsburgh—WAREHOUSE—Allied Electric Supply Co., 928 Penn Ave., 2 story, 25x80 ft., steel, concrete block, brick, warehouse, to Branna Constr. Co., 406 Bessemer Bldg. Est. $60,000. CD 9/30—ENR 10/3.

Pa., Primos—DISTRIBUTION, etc.—Crucible Steel Co. of America, 1228 Callowhill St., Phila., distribution and office bldgs., to Townsend & Elfreth, 1700 Sansom St., Phila. $72,000. Bids about 1/1, awarded 10/24. CD 10/24—ENR 10/31.

Pa., Scranton — ABATTOIR — Lackawanna Beef & Provision Co., 1002 S. Wyoming Ave., abattoir addns., alterations, separate contracts. $60,000. Morris Frutchbaum, 328 Chestnut St., Phila., engr. and archt.

Pa., Washington—PLANT—National Annealing Box Co., Washington, 1 story, 44x280 ft., brick, steel plant, separate contracts. $60,000. Hunting Davis & Dunnels, 1150 Century Bldg., 132-7 Ave., Pittsburgh, archts.

Tenn., Chattanooga—GARAGE, etc.—Allison Motor & Equipment Co., 601 Chestnut St., garage and sales bldg., to J. C. Becking Co., 700 E. 13 St. Est. About $60,000.

UNCLASSIFIED

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked November 12

Georgia—POWER LINES—Lamar Electric Membership Corp., Barnesville, 196.8 mi. primary, secondary and service power lines, in Lamar, Meriwether, Pike, Spalding, Upson, Monroe, Bibb and Crawford Counties. Over $100,000. Plans deposit $25. J. B. McCrary Eng. Co., 22 Marietta St., Atlanta, engr. CD 7/25/45—ENR 8/2/45.

Bids Asked November 15

Ill., Chicago—ELECTRICAL EQUIPMENT—City, Dpt. P. Wks., City Hall, electrical equipment S. Canal St. Bridge, Sect. S.A. 054-1515. 6 C.S. Plans deposit $25.

Bids Asked November 26

N. Y., New York—PLATFORM EXTENSION — Bd. Transportation, 250 Hudson St., Zone 13, platform exten. to Stations of Lexington-4th Ave. Line, IRT Div., New York City Transit System.

Bids Asked November 27

★**Calif., Los Angeles**—TERMINALS—City of Los Angeles Harbor Dpt., A. Eldredge, genl. mgr., City Hall, Los Angeles, and Branch City Hall, San Pedro, timber, concrete wharf and steel frame transit shed exten. at Berths 179-180, Spec. 1072. $1,056,000. CD 11/9/45—ENR 11/29/45.

Bids Asked

★**Texas**—OIL PIPELINE—Texas Pipe Line Co., Texas Co. Bldg., Houston, 78 mi. 22 in. crude oil pipeline carrier between Houston and Port Arthur and Port Neches. $2,250,000; booster stations on main oil pipe-line, Port Arthur-Port Neches areas, $175,000.

LOW BIDDERS

N. Y., Brooklyn—PLATFORMS EXTENSIONS—Bd. Transportation, 250 Hudson St., New York, Zone 13, platform extens. at Hoyt St. Station, Brooklyn-Manhattan branch of New York City Transit Sys., IRT Div., Contr. 2, from National Structures Corp., 10 E. 40 St., New York, Zone 17. $679,700. CD 10/15—ENR 10/17.

★**Texas** — PIPELINE — Pasotex Pipe Line Co., Iraan, 98 mi. 10¾ in. crude oil pipeline carrier from Iraan to Wink, to Smith Contg. Co., Fort Worth National Bank Bldg., Fort Worth, approx. $1,375,000: 98 mi. 10¾ in. crude oil pipeline reconditioning and Somastic coating, Wickett, to H. C. Price Co., Wickett, approx. $125,000. CD 10/16—ENR 10/24.

★**B. C., Vancouver**—CAMP SITE—Canadian Forest Products Ltd., 510 W. Hastings St., logging camp townsite, incl. homes, school, recreation bldgs. and railway shops near Nimpkish Lake, Vancouver Island. Owner builds. $1,000,000. Awarded 10/22.

LAST MINUTE CONSTRUCTION REPORTS

WATER SUPPLY

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked November 14

N. Y., New York—Comr. Water Supply, Gas & Electricity Municipal Bldg., Zone 7, hauling, laying watermains, appurtenances in Arnow, Seton and Tillotson Aves., Bronx Boro; Coolidge, Jewel, Reeves, 24, 26, 46, 69 and 77 Aves., 222, 265, 266 and 267 Sts., 45 Rd. and 146 and 196 Pls., Queens Boro. Plans deposit $1 each.

Bids Asked November 27

Wash., Puyallup—City, City Hall, 2 m. g. standpipe. $60,000. Bids 9/25 rejected. CD 10/4—ENR 10/10, under LB.

Bids Asked December 3

Wis., Port Washington—City, water filtration plant. $285,000. Extended date. Greeley & Hansen, 220 S. State St., Chicago, Ill., engrs. CD 9/24—ENR 9/26.

Bids Asked December 4

Calif., El Centro—City, City Hall, El Centro, 8 m. g. d. c. water filtration plant. Over $150,000. Plans deposit $15. J. M. Montgomery, 666 S. Lafayette Park Pl., Los Angeles, engr. CD 9/17—ENR 9/19.

LOW BIDDERS

Calif., San Diego—City, Civic Center Bldg., Section IV of El Monte pipeline—Gossmont Tunnel to Alvarado filtration plant, 14,700 ft. 68 in. centrif. rein.-con. pipe, from American Pipe & Constr. Co., 4635 Firestone Blvd., Los Angeles, **$489,608**. Est. over $500,000. CD 10/15—ENR 10/17.

Tenn., Nashville—City, E. B. Smith, purch. agt., Oct. 8, watermains in Gallatin Rd. and Trinity Lane, from Bush Bldg. Co., 805 Eighth Ave. N. **$25,431**. R. L. Lawrence, Jr., 201 City Hall, city engr. WW. Dpt.

★**Wash., Olympia**—City, City Hall, Oct. 29, 3,725 ft. 36 in. steel pressure line, 2 m. g. reservoir, 37,500 ft. 36 in. supply line, etc., from American Pipe & Constr. Co., 518 N. E. Columbia Blvd., Portland, Ore., **$1,444,307**. Est. $1,200,000. CD 9/25—ENR 10/3.

CONTRACTS AWARDED

Ill., Fairfield—City, E. P. Fleming, clk., WW imprvs., furnishing, installing 300,000 gal. water tank, less fdn., to Chicago Bridge & Iron Co., 332 S. Michigan St., Chicago. **$31,500**. Bids 9/17. Warren & Van Praag, Inc., Standard Office Bldg., Decatur, engr.

SEWERS, WASTE DISPOSAL

Additional earlier Construction Reports will be found in the regular section.

LOW BIDDERS

Bids Asked December 2

Kan., Oberlin—City, at office R. S. Claar, city clk., sanitary sewerage extens. Plans deposit $5. Wilson & Co., 223 North Santa Fe St., Salina, engrs.

Bids Asked November 13

N. Y., Staten Island—President Richmond Boro, Boro Hall, Zone 1, sanitary sewer Ross Ave. from Hylan Blvd. to point about 100 ft. south of 10 St. etc.

Bids Asked December 17

Del., Wilmington—Bd. Directors Street & Sewer Dpt., City Hall, concrete storm sewers starting in Brandywine Park at exten. Franklin St., thence to 18 and Broom Sts. and various other streets. $325,000. Plans deposit $25.

LOW BIDDERS

Md., Baltimore—City, c/o Bd. Awards, City Hall, rejected bids Oct. 10, oil burning equipment for sewage plant. CD 10/16—ENR 10/24.

Ore., Prineville—City, City Hall, Oct. 22, 8 mi. sewers and sewage pumping plants, from Leonard & Slate of Oregon, Ltd., 7805 S.W. 40 Ave., Portland. **$114,472**. Est. $157,000 R. H. Corey, Lewis Bldg., Portland, engr. CD 10/16—ENR 10/24.

Tex., Brownwood—City, F. S. Abney, mgr., Brownwood, Oct. 29, storm sewer drainage sys., from Fitzgerald, Newton & Carry, McAllen. **$147,243**. Giesecke, Kuehne & Brooks, 121 E. 8 St., Austin, archts. Carter & Burges, Century Bldg., Ft. Worth, engrs. CD 10/22.

Tex., Houston—City, M. H. Westerman, secy., Oct. 28, sanitary sewerage sys. in Dixie Dr., Sect. 5, South Side, from T. Bates & Sons, 107 Girard St. **$267,890**. Est. $278,000. G. L. Fugate, City Hall, city engr.

CONTRACTS AWARDED

Ill., Fairfield—City, E. P. Fleming, clk., WW and sewerage sys. imprvs., to F. A. Coda Constr. Co., 9434 S. Laflin St., Chicago. **$405,279**. Bids 10/15, awarded 10/25. CD 10/3—ENR 10/10.

BRIDGES

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

★**D. C., Wash.**—Dist. Comrs., District Bldg., Oct. 31, superstructure for South Capitol St. bridge, from Phoenix Bridge Co., Phoenixville, Pa. **$1,123,345**. CD 9/24—ENR 9/26.

STREETS AND ROADS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked November 13

Louisiana—State Dpt. Hys., D. Y. Smith, dir., Baton Rouge, 2,015 cu. yd. washed gravel furnished spot-dumped, SP Proj. 703-02-01, Beauregard Parish; 4,634 cu. yd. SP 713-00-27, Madison Parish; washed gravel furnished and del. f.o.b. railroad cars 3,219 and 552 cu. yd. various sidings in Calcasieu Parish and 552 cu. yd. clam shell furnished, del. f.o.b. bank steel bridge over Vinton Navigation Channel, Sect. 26, T 10 S, R 12W, S. P. 703-02-05.

Bids Asked November 15

Kansas—State Hy. Dpt., St. Marys, resurfacing materials 15.384 mi. Proj. 1543, 1.8 mi. Proj. 1544, both Doniphan Co.; 0.16 mi. Proj. 1545; 4.746 mi. Proj. 1546, Jackson Co.; 8.853 mi. Proj. 1547 A. B., Jefferson Co.; 8.088 mi. Proj. 1548 A. B, 8.017 mi. Proj. 1827, 8.094 mi. Proj. 1549, all foregoing Leavenworth Co.; 8.032 mi. Proj. 1550 A. B, Lyon Co.; 9.034 mi. Proj. 1551; 7.573 mi. Proj. 1555 A. B, 8.2 mi. Proj. 1552, 10428 mi. Proj. 1553, 2. mi. Proj. 1829, $1.217 mi. Proj. 1554 A. B. C, all foregoing Marshall Co.; 13.687 mi. Proj. 1556, 10.59 mi. Proj. 1557; 4.53 mi. Proj. 1558, both Nemaha Co.; 6.129 mi. Proj. 1559, 43.096 mi. Proj. 1561 A. B, 11.603 mi. Proj. 1828; 26.35 mi. Proj. 1561 A. B, 11.603 mi. Proj. 1562, all foregoing Pottawatomie Co.; 14.934 mi. Proj. 1563, 18.01 mi. Proj 1564 A. B, both Riley Co.; widening 0.606 mi. Proj. 1822, Johnson Co. R. C. Keeling, Topeka, engr.

LOW BIDDERS

Maryland—State Rds. Comn., Baltimore, Oct. 29, imprv. 1.5 mi. Washington Co., from Muller Contg. Co., Arnold. **$76,859**. CD 10/23.

†**Montana**—Pub. Roads Admin, 342 P. O. Bldg., Missoula, rejected bids Aug. 6, grading 3.681 mi. YGB highway, Lewis & Clark National Forest, under LB. Cascade Co. **$125,179**. CD 8/16—ENR 8/22, L. B.

Ohio—State Hy. Dpt., Columbus, Oct. 22, imprv. 0.753 mi. Portage Co., from De Luca Const. Co., 1055 Grant St., Akron, **$130,079** est. $107,900. Received no bids Oct. 22, imprv. 0.274 mi. Belmont Co., 0.839 mi. Williams Co., **$21,100**; 0.222 mi. Clermont Co., **$26,900**. Cancelled bids to have been opened Oct. 22, imprv. 0.98 mi. Butler Co. CD 10/4—ENR 10/10.

Tex., El Paso—City, 40,000 sq. yd. 1½ in. hot mix asphaltic concrete paving 7,000 lin. ft. concrete curbing, from Vowell Constr. Co., El Paso. Approx. **$67,000**. CD 4/21/44—ENR 5/4/44.

Tex., Three Rivers—City, J. K. Montgomery, mayor, Oct. 28, asphalt paving about 9 mi. streets, from N. B. Hoffman, Mid-Continent Bldg., Fort Worth. Approx. **$132,000**. Est. $100,000. CD 10/15—ENR 10/17.

Washington—State Hy. Dpt., Olympia, Oct. 29, imprv. 0.08 mi. Kittitas Co., from C. E. Oneal, Ellensburg, **$48,040**. Rejected bids Oct. 29 imprv. 4.444 mi. Lampreck Rd. and 2.633 mi. Layton Rd. Lincoln Co. L. B. **$113,927**; received no bids imprv. 11.789 mi. Benton Co. CD 10/16—ENR 10/29.

†**Alaska**—Forest Service, 312 Federal Bldg., Juneau, received no bids Aug. 30, North Point Higgins truck trail with 2 spurs. Project cancelled. CD 8/16.

CONTRACTS AWARDED

Ill., Chicago—Cook Co. Hy Dpt., County Bldg., resurfacing Schaumberg Rd., to Hedges Const. Co., 100 N. LaSalle St., Chicago, **$178,059**; Steger Rd., to Chicago Heights Coal Co., Chicago Heights, **$69,604**. Bids 10/1. Rejected bids Oct. 1, imprv. Lake-Cook Rd. CD 9/26.

★**Ohio**—State Hy. Dpt., Columbus, imprv. 1.631 mi. Cuyahoga Co., to Horvitz Co., 913 Midland Bldg., Cleveland, **$733,280**, est. $691,000***4.826 mi. Gallia Co., to V. N. Holderman & Sons, 297 S. High St., Columbus, **$574,878**, est. $601,100***0.899 mi. Madison Co., to Visintine & Co., 1315 Edgehill Rd., Columbus, **$165,961**, est. $162,700***0.321 mi. Meigs Co., to H. B. Hune & H. E. Calvin, 509 Tupper St., Marietta, **$55,501**, est. $53,350 ***1.107 mi. Auglaize Co., to Frantz Brothers, Sidney, **$159,800**, est. $155,500***0.427 mi. Lucas and Wood Counties, to Hanagan Bros., Urbana, **$404,995**, est. $369,000***0.142 mi. Noble Co., to W. J. Elliott, McConnellsville, **$44,785** est. $48,450. Grand total $2,139,180. Bids 10/22. CD 10/4—ENR 10/10.

Pennsylvania—State Dpt. Hys., Harrisburg, first section U.S. 22 By-Pass at Huntingdon Boro, Huntingdon Co., to Mauger-Smith, Inc., 8 E. Long St., Columbus, O. **$510,138**. CD 10/29—ENR 10/31, under L.B.

Washington — State Hy. Dpt., Olympia, imprv. 11.571 mi. Klickitat Co., to G. J. Norris, Shelton. **$153,379**. Bids 9/29. CD 10/16.

EARTHWORK, WATERWAYS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked November 29

†**Oklahoma**—Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars shipping point or f.o.b. cars at Altus, nine 21x15 ft. radial gates; nine 15,000 lb. motor-driven radial gate hoists, etc. for installation in spillway of Altus Dam, Altus Proj., Spec. 1469.

Bids Asked December 6

†**Colorado**—Bureau Reclamation, Denver, furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Granby and Ft. Collons, one 36 in. ring-follower gate, one semiautomatic gate-hanger, one 30 in., upstream and one 30 in. downstream conduit, one 30 in. hollow-jet valve with control stand and wrenches, and one 14 in. hollow-jet valve with control stand and wrenches for Granby Dam; one 14 in. hollow-jet valve with control stand and wrenches, for Soldier Canyon Dam, Colorado-Big Thompson Project, Spec. 1516. W. R. Young, ch. engr.

LOW BIDDERS

†**Texas**—U. S. Eng., Santa Fe Bldg., Galveston, cancelled bids to have been opened Nov. 12, dredging Cedar Bayou between Atkinson Island and Boaz Island, Harris and Chambers Counties, Inv. 41-243-47-137. CD 10/29—ENR 10/31.

Tex., Three Rivers—City, Oct. 28, 1.11 mi. drainage, from N. B. Hoffman, Mid-Continent Bldg., Fort Worth. Approx. **$29,600**. Est. $50,000. CD 10/15—ENR 10/17.

AIRPORTS & AIRBASES

Additional earlier Construction Reports will be found in the regular section.

LOW BIDDERS

Mo., St. Louis — RUNWAY — City, Bd. P Service, M. M. Kinsey, pres., 304 City Hall, 12 and Market St., Zone 3, Oct. 29, 4,100 ft. rein.-con. runway, 200 ft. wide and connecting taxiway at the Lambert-St. Louis Municipal Airport, Robertson, St. Louis Co., from F. Weber, Jr., 7929 Alabama Ave., Zone 11, **$752,681**. Est. $972,000. CD 10/2—ENR 10/10.

PUBLIC BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked November 26

La., New Orleans — Bd. Administrators Charity Hospital of La., 1532 Tulare Ave., balconies, addns., alterations and repairs certain parts 4 story, bsmnt. John Dibert Tuberculosis Bldg., Tulane Ave. and S. Claiborne St. Nolan, Norman, Nolan, 503 Queen & Crescent Bldg., archts.

CONTRACTS AWARDED

†**Colo., Denver**—Pub. Rds. Admin. 18 and F Sts., N. W., Wash. 25, D. C., remodeling 5 bldgs in Federal Center, for Bureau Reclamation, to Mead & Mount Const. Co., 422 Denver Natl. Bank Bldg. **$835,000**. Bids 9/27. CD 10/2—ENR 10/10, under LB.

COMMERCIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

SOON LETS CONTRACT

Tex., Houston—Herman Hospital Estate, c/o Col. J. Anderson, Stewart Bldg., at office, Kenneth Franzheim, archt., 2306 Crawford St., soon lets contract 7 story, bsmnt., 370 bed hospital, power plant, limestone, brick, clay tile, glass brick, incl. masonry work, cut stone, etc. CD 10/15—ENR 10/17.

Ont., Ottawa—J. I. English, archt., 24 King St. W., Toronto, soon lets contract, 83x139 ft. and 43x60 ft. brick, concrete block theater, rein.-con. fdn., Bank St. between Slater St. and Laurier Ave. W., for Odeon Theaters of Canada, Ltd., 2 King St. E., Toronto. About $300,000. CD 10/16—ENR 10/31.

COMMERCIAL BLDGS. (Contracts Awarded, Cont'd.)

CONTRACTS AWARDED

Calif., Van Nuys—Second Valley Housing Corp., 650 N. Sepulveda Blvd., West Los Angeles, 70 frame, stucco, 6 room dwellings, Langdon and Peach Aves., to Paul W. Trousdale, 650 N. Sepulveda Blvd., West Los Angeles. Approx. **$500,000.**

D. C., Wash.—Cafritz Const. Co., 1404 K St. N. W., 17 three story, brick, cinder block apartments, from 17 to 127 Galveston St. N. W., and 4640 Nichols Ave. S. W. Owner builds. **$885,000.** L. L. Werner, 1404 K St. N. W., archt.

Ill., Chicago—Commonwealth Edison Co., 72 W. Adams St., 1 story, 46x96 ft. switchhouse, 46x125 ft. transformer court, brick, concrete addn., Roseland Sub-station, to Herlihy Mid-Continent Co., 79 W. Monroe St. Est. **$275,000.** Holabird & Root, 333 N. Michigan St., archts.

Ill., Spring Valley—St. Margaret's Hospital, Spring Valley, 3 story, bsmnt, 44x105x121 ft. brick, steel concrete, stone hospital, to T. S. Willis, Janesville, Wis. Est. **$565,000.** Bids 10/3. CD 9/17—ENR 9/19.

★**Ind., Indianapolis**—Meadowbrook Co., c/o G. Sadlier, pres., Union Federal Savings & Loan Assn., 620-unit apartment proj., E. 38 St., exten. five 2-story blocks east of Eastern Ave., incl. 27 apts., restaurant, super-market, filling station, and theater. Owner builds. **$5,470,000.** Lloyd Allen, c/o Allen & Kelley, Architects & Builders Bldg., archts.

INDUSTRIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked About November 15

Tex., Texas City—PLANT—Mainland Milk Co., 902-10 St. milk plant, incl. loading platforms. $60,000. H. Gracida & Son, Texas City, engrs. and archts.

CONTRACTS AWARDED

Mo., St. Louis—WAREHOUSE—County Cash & Carry Grocery Co., 4222 Southampton Ave., Zone 9, 1 story, 140x180 ft., brick warehouse, 5121 Manchester Ave., Zone 10, to I. E. Millstone Constr. Co., 4343 Clayton Ave., Zone 10. Est. over **$80,000.** K. E. Wischmeyer, 911 Locust St., Zone 1, archt.

Tenn., Gallatin—PLANT—Sumner County Co-operative Creamery, c/o Chairman, Gallatin, creamery bldg. addn. Owner builds. **$55,000.**

Tenn., Memphis — WAREHOUSE — Illinois Central R.R., C. H. Mottier, ch. engr., 135 E. 11 Pl., Chicago, 5, Ill., remodeling warehouse and laying 2 railway tracks, to E. O. Korsmo Constr. Co., Porter Bldg. **$73,000.**

Tex., Dallas—PLANT—A. H. Belo & Co., Lamar and Commerce Sts., foundation for 1 story (ultimately 5 story) 193x303 ft., Texas stone, publishing plant, to Henry C. Beck, Jr., Tower Petroleum Bldg., approx. **$225,000.** G. L. Dahl, Southland Life Bldg., archt. CD 10/1—ENR 10/7.

Tex., Dallas—PLANT—Lone Star Gas Co., 1915 Wood St., imprv. constructing gas plant units, **$300,000;** imprv., replacing gas lines, Owner builds. **$275,000.**

Tex., Dallas—WAREHOUSE—E. H. Perry, 2110 Corinth St., warehouse and addn., to A. J. Rife Constr. Co., 2808 Inwood St. **$120,000.** CD 10/18.

Tex., Garland—PLANT—International Engine Rebuild Corp., Beltline Rd., lean-to plant bldg., to W. H. Wallace, Garland. Approx. **$65,000.** CD 10/30—ENR 11/7.

Tex., Houston—WAREHOUSE—**M. Kruger,** 2928 Commerce St., warehouse. Owner builds. **$55,000.**

Tex., Houston—CHEMICAL PLANT—Diamond Alkali Co., Oliver Bldg., Pittsburgh, Pa., design and construction addnl. chemical plant units, to Brown & Root, Inc., Box 3, Approx. **$240,000.** CD 8/8/45—ENR 8/23/45.

Tex., Orange — PLANT — E. I. duPont de Nemours & Co., Orange, design and construction methanol plant at Sabine River Works, to The Lummis Co., 420 Lexington Ave., New York, N Y. **$639,000.** CD 8/27—ENR 10/29.

Tex., Raymondville—PLANT—Aztec Freezers & Canners, c/o W. W. Ely, Raymondville, canning plant and quick-freezing unit. Owner builds. **$60,000.**

Va., Lynchburg — PLANT — Blue Ridge Frozen Foods, Inc., Lynchburg, 1 story, cinder block food freezing plant, to Robert M. Dunville & Bros., 423 N. Addison St., Richmond. Est. **$68,000.**

Wash., Wenatchee—WAREHOUSE—J. D. Hamilton Co., 138 S. Columbia St., rebuilding fruit warehouse, day labor. **$60,000.**

Wash., Yakima—PLANT—Pacific Fruit Co., Yakima, cold storage plant addn., to W. M. Yeaman, Yakima. **$130,000.**

Wis., Milwaukee—FACTORY—Delta Mfg. Div. of Rockwell Mfg. Co., 620 E. Vienna St., Zone 12, 1 and 2 story, 144x216 ft., brick, blocks, steel factory addn., concrete block fdn., to Selzer-Ornst Co., 6222 W. State St., Wauwatosa, Zone 13. Est. **$148,500.** A. H. Kloppenburg, 708 E. Green Tree Rd., Zone 11, archt.

Wis., Waunakee—CHEESE FACTORY—Milwaukee Cheese Co., 420 N. Broadway, Milwaukee, Zone 2, 1 story, 60x120 ft. brick, steel cheese factory addn., concrete fdn., to Mike Simon & Son, Waunakee, W. V. Kaeser, 2306 University Ave., Madison, archt. CD 2/21—ENR 3/7.

Wis., West DePere—CREAMERY—West De Pere Co-operative Creamery, Rte 1, 1 and 2 story, 62x104 ft. steel, concrete, brick creamery, concrete fdn. to Harland Grover, DePere. Edw. Tough, 305 S. Mills St., Madison, archt.

B. C., New Westminster—MACHINE SHOP, etc.—Westminster Iron Works Co. Ltd., 66-10 St., 2 story, 175x212 ft., heavy timber stucco machine shop, steel shop, warehouse, stockroom and offices, to Ward & Son Ltd., 131 11 Ave. **$35,000.** Awarded 10/24. C. T. Hamilton, 615 West Hastings St., Vancouver, engr.

N. S., New Glasgow—PLANT—L. E. Shaw, Ltd., 74 Beford Row, Halifax, 1 story, 50x150 ft., 41x80 ft. and 65x125 ft. tile plant units, to Fraser, Mason & Fraser, Lorne St. About **$150,000.**

Ont., Dunnville—FACTORY—Monarch Knitting Co., Ltd., Dunnville, factory, to W. H. Yates Constr. Co., Ltd., Wellington St. W., Hamilton. About **$100,000.**

Ont., Toronto—SERVICE SHOP, etc.—J. A. Labraico Co., Ltd., 527 Yonge St., 2 story, 72x130 ft., brick, steel, concrete glass tile service shop and showroom, to R. C. Kirby & Sons Ltd., 339 Yonge St. About **$80,000.** A. F. Facey, 991 Bay St., archt.

Ont., Toronto—WAREHOUSE—J. E. Montgomery, St. Helens Ave., warehouse, St. Helens Ave., to Milne & Nicholls, Ltd., 57 Bloor St. W. About **$55,000.** Ewart, Armer and Byam, Excelsior Life Bldg., engrs.

Ont., Windsor—WAREHOUSE—H. Walker & Sons, Ltd., 2067 Sandwich St., Walkerville, distillery warehouse, to Dinsmore-McIntire Ltd., Security Bldg. Est. over **$150,000.**

Que., Chicoutimi—PLANT—Shell Oil Co. of Canada Ltd., 660 W. St. Catherine St., Montreal, marine terminal plant, to J. R. Theberge Ltd., 154 Prince St. Est. **$100,000.**

Que., Duprat—DIAMOND DRILLING—Despina Gold Mines Ltd., Dupart, diamond drilling, to Jones & Bradley, Noranda. Est. **$90,000.** E. Koulomzine, c/o owner, engr. CD 1/24/45—ENR 2/8/45.

Que., Montreal—FACTORY—Owner, c/o contractor, factory, Iberville St., to S. Lazar, 5085 Glencairn Rd. Est. **$65,000.**

Que., Montreal—FACTORY—Nordic Hosiery Ltd., 74 Turgeon St., factory, to R. M. Miller Constr. Co. Ltd., 1500 Guy St. Est. **$70,000.** Archibald & Illsley, 1440 W. St. Catherine St., archts.

Que., Quebec City—GARAGE—J. L. Drolet Automobiles Ltd., 450 Blvd. Charest, Quebec City, garage addn., alterations to Magloire Cauchon, Ltd., 311 de la Salle St. About **$75,000.** CD 8/27—ENR 9/5.

Que., Shawinigan Falls—PLANT—Shawinigan Water & Power Co., 107 Crair St. W., Montreal, research plant offices and laboratory, Trudel St. S., to John F. Wickenden Co. Ltd., Ameau Bldg., Three Rivers. About **$120,000.** W. J. Orr, 3559 St. Famile St., Montreal, engr. CD 10/2.

Que., Sherbrooke — WAREHOUSE, etc. — Sherbrooke Grain, Reg., 25 Belvedere St. S., 3 story, 45x75 ft., frame, warehouse, factory and office, concrete fdn., at C.P.R. Terrace, day labor. About **$60,000.** J. W. Gregoire, 85 Wellington St. N., archt.

Que., Victoriaville—PLANT—Assn. of Co-operatives, Lactenetia, Ltd., Victoriaville, dry milk plant, to J. E. Blais, 2 Desire St. About **$500,000.** CD 4/26—ENR 5/16.

Sask., Saskatoon—WAREHOUSE—Canadian General Electric Co. Ltd., 209 Birks Bldg., warehouse, Second Ave. N., to Pigott Constr. Co. Ltd., 502 Fifth Ave. N About **$70,000.** CD 7/26—ENR 8/1.

Sask., Saskatoon — WAREHOUSE — J. I. Case & Co., Saskatoon, warehouse, to Shannon Bros., 202 The Avalon, Saskatoon, about **$75,000.** Portnall & Stock, 109 Angus Crescent, Regina, archts.

UNCLASSIFIED

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked November 29

N. Y., Brooklyn—PLATFORM EXTENSION—Bd. Transportation, 250 Hudson St., New York, Zone 13, Culver Line rehabilitation, Rte 49, platform exten. and Ditmas Ave. 4th track.

Bids Asked

Texas—OIL PIPELINES—Standish Pipe Line Co., c/o Phillips Petroleum Co., Bartlesville, Okla., 289 mi. 12 in. crude oil pipeline main from Goldsmith to Borger. $525,000. CD 10/30.

LOW BIDDERS

Texas—CRUDE OIL PIPELINE—Shell Pipeline Corp., Shell Bldg., Houston, project abandoned 15 mi. 10 in. oil pipeline reconditioning (McCamey-Cushing Main), Wichita Falls area, **$85,000,** CD 9/10—ENR 9/12; reconditioning 13 mi. 6- to 10-in. crude oil trunk lines between Denver City and Westbrook, **$70,000.** CD 10/30—ENR 10/10.

CONTRACTS AWARDED

Iowa—TRANSMISSION LINES—Allamakee-Clayton Electric Co-operative, Inc., Kermit James, mgr., Postville, 217 mi. addnl. rural electric lines, Allamakee Co., **$300,000** and 6 mi. 3 phase line, substation and conversion 6.75 mi. lines in Allamakee Co. **$250,000,** own forces. CD 10/18—ENR 10/31.

Minnesota — ELECTRIC LINES — Beltrami Electric Co-operative Inc., M. B. Taylor, proj. supt., Bemidji, furnishing labor for about 150 mi. rural electric transmission lines, Beltrami Co., to Hallett Constr. Co., Crosby. **$63,343.** Bids 10/7. Banister Engr. Co., 1547 University Ave., St. Paul, engr. CD 8/16—ENR 9/5.

Missouri—TRANSMISSION LINES—Howell-Oregon Electric Co-operative, Inc., West Plains, 313 mi. electric lines to serve members in Howell, Oregon, Douglas, Shannon and Texas Counties, own forces. **$533,000.** REA allot. CD 10/16—ENR 10/31.

Missouri—RURAL ELECTRIC LINES—Howell-Oregon Electric Co-operative, Inc., West Plains, 290 mi. rural electric lines, Howell Co., own forces. **$275,000.**

Pa., Yeadon—PLAYGROUND—Yeadon Boro School Dist., Yeadon, playground addns., to James J. Skelly, State St. and Baltimore Ave., Media. **$50,000.** George M. Ewing, Real Estate Trust Bldg., archt. Bids about 10/15, awarded 10/25. CD 10/11.

Pennsylvania and **Ohio** — TRANSMISSION LINE—Pennsylvania Power Co., c/o Ohio Edison Co., New Castle, Pa., 10 mi. 66,000 volt transmission line between Cedar St. sub-station, New Castle, Pa., and Lowellville, O., plant of Ohio Edison Co. Owner builds. **$100,000.** CD 11/2/45—ENR 11/15/45, under Industrial Bldgs.

S. C., Greenville—RADIO STATION—Yellow Cab Co., 126 W. Court St., c/o E. Tooley, Greenville, radio station, to Fiske-Carter Constr. Co., Masonic Temple. Est. **$40,000.**

Texas — PIPELINE — Carbide & Carbon Chemicals Corp., 442 Cassiano St., San Antonio, reconditioning and Somastic coating 20 mi. 4½ in. pipeline, Bexar Co., to H. C. Price Co., 442 Cassiano St. **$46,000.**

Texas—PIPELINE—Magnolia Pipe Line Co., Magnolia Bldg., Dallas, 35 mi. 8 in. loop oil line on Port Arthur-Corpus Christi-Seeligson line, to J. R. Horrigan Constr. Co., Commerce Bldg., Houston. Approx. **$286,000.**

Que., Ile aux Coudres—WHARF—Dpt. P. Wks., Ottawa, Ont., imprv. local wharves, to Aristide Maltais, La Malbie Bay. **$48,700.** CD 9/5—ENR 9/12.

Que., Kamouraska—WHARF—Dpt. P. Wks., Ottawa, Ont., wharf, to Alphonse Montminy, St. Francois de Montmagny. About **$40,000.** R. Blais, c/o owner, engr. CD 8/13—ENR 8/22.

PROPOSED PROJECTS

Including class of projects previously listed as *postwar*

PUBLIC BUILDINGS

PROPOSED WORK

★**Calif., San Diego**—San Diego Co., Civic Center, San Diego, city-county service bldg., **$873,000;** Class A hospital at County Hospital, **$1,500,000;** permanent facilities for 320 custodial cases at Edgmoor Farm, **$684,800;** Class A bldg. replacing central section and eastern wing of Anthony Home, **$270,000;** addn. to Vauclain Home, **$1,171,500;** City-County Administration Bldg. addn., **$700,000;** psychopathic ward addn. at Edgemoor Farm, **$432,000.** E. L. Freeland, Civic Center, San Diego, engr.

Conn., Danielson—Town, 127 Main St., school, Main and Hutchins Sts., Proj. 1-6-P-49. **$462,350.**

Conn., Higganum Center (Higganum P.O.)—Town, School Bldg. Comn., school, Proj. 1-6-P-50. **$205,000.** C. W. Walker, 115 Main St., Bridgeport, archt.

Conn., New London—New London Junior College, 437 Pequot Ave., 1 or 2 additional schools for veterans education. **$205,000.** Financing not provided.

Conn., Middletown—City, Van Buren Moody, supt. Schools, Middletown, brick, steel school **$205,000.** Financing not provided.

Conn., Stratford—Town, H. B. Flood, mgr., Town Hall, plans by C. W. Walker, 1115 Main St., Bridgeport, high school auditorium and gymnasium, Proj. 1-6-P-52. North Parade St. **$840,000.** CD 8/20—ENR 9/5.

Conn., Wilton—Town, N. S. Hulburt, chn. Bldg. Comn., Wilton, plans by W. H. Kilham, Jr., 229 E. 28 St., New York, N. Y., 2 story, bsmnt., brick, steel school. **$205,000.** Land rights not cleared. CD 2/14/45—ENR 3/8/45.

Fla., Gainesville—University of Florida, Gainesville, plans completed kitchen and cafeteria. **$225,000.** Financing provided. Reynolds Smith & Hills, 10 S. Laura St., Jacksonville, Zone 1, consult. engrs.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

Fla., Miami—Dade Co., c/o Bd. Comrs., Court House, county supplies and road machinery storage warehouse. **$225,000.** Financing not provided.

Ia., Creston—Union Co., Creston, plans by Dougher, Rich & Woodburn, Old Colonial Bldg., Des Moines, court house. **$300,000.** Financing not provided.

Ia., Keokuk—City, plans under way, city hall. **$325,000** bond election Nov. 5.

Ia., Newton—Ind. School Dist., Newton, plans by Keffer & Jones, Masonic Temple Bldg., Des Moines, high school. **$815,000.** Financing not provided.

Kan., Wichita—Bd. Educ., Witchita, plans by R. R. Hibbs, 144 N. Fountain St., Adams Elementary School. **$295,000.** Financing not provided.

★**Mass., Springfield**—City Planning Bd., Springfield, Police Dpt. headquarters, Federal St., Proj. 1-19-P-192. **$397,500;** Park Dpt. service bldg. in Forest Park, Proj. 1-19-P-193, **$331,250;** service bldg. addn. Taylor St., for Dpt. Streets and Engineering, Proj. 1-19-P-194, **$662,500.** CD 5/16/45—ENR 5/31/45.

Mass., Weston—Town, school. School and Wellesley Sts., Proj. 1-19-P-187. **$499,200.**

Minn., Cleveland—Bd. Educ., G. H. Royer, clk., voted $175,000 bonds, school addn. Over **$205,000.** A. G. Plagens, 334 University Ave., St. Paul, archt. CD 10/9—ENR 10/31.

★**Minn., Mankato**—Bd. Educ., L. M. Vieger, clk., school. **$1,100,000.** Election Nov. 5. to vote on site designation. Pass & Rockey, Mankato, archts. CD 9/44—ENR 6/15/44.

Minn., Sleepy Eye—Bd. Educ., c/o C. W. Kiefer, clk., plans by Pass & Rockey, Mankato, school addn. **$300,000** bond election Nov. 12. CD 1/25/45—ENR 2/8/45.

Mo., Brookfield—Linn Co. plans by Black & West National Mutual Bldg., Tulsa, Okla., hospital. **$300,000.** Financing not provided.

Mo., St. Louis—Bd. Educ., c/o J. P. Sullivan, comr., School Bldgs., Bd. Educ. Bldg., 911 Locust St., Zone 1, rein.-con., brick, steel, stone high school, incl. gymnasium indoor swimming pool, etc. in area bounded by Riverview Blvd. and Lillian, Theodore and Wren Aves. **$2,000,000.** Land rights not cleared. CD 1/1—ENR 1/31.

★**N. J., Atlantic City**—N. J. Dpt. Economic Development, State House Annex, State House Bldg., Trenton, and City of Atlantic City, Atlantic City, surveys housing development. **$1,200,000.**

★**N. J., Camden**—N. J. Dpt. Economic Development, State House Annex, Trenton, and City of Camden, Camden, surveys housing development. **$1,100,000.**

N. J., Egg Harbor—Bd. Educ., plans by Edwards & Green, Broadway and Carmen Sts., Camden, high school. **$500,000.** Financing not provided. CD 1/23—ENR 5/16.

N. J., Ewing Twp. (Trenton P.O.)—N. J. Dpt. Economic Development, State House Annex, Trenton, plans under way, state housing development. **$400,000.** Financing provided.

N. J., Florence—N. J. State Dpt. Economic Development, State House Annex, Trenton, plans under way, state housing development. **$300,000.** Financing provided.

N. J., Glassboro—N. J. State Teachers College, Glassboro, general demonstration school (wing) library, mens dormitory, over **$205,000** each; central heating plant, over **$75,000.** Financing not provided.

N. J., Harrison Twp. (Mullica Hill P.O.)—Harrison Twp. Bd. Educ., Mullica Hill, plans by Harold M. Klaisz, 7 N. Maple St., Woodbury, school. Over **$205,000.** Financing provided.

N. J., Westville—Bd. Educ. plans by J. Norman Hettel, 501 Cooper St., Camden, school. Over **$205,000.** CD 12/20/45—ENR 2/7/46.

★†**Pa., Harrisburg**—Veterans Admin., Vermont Ave., between H and I Sts., N. W., Wash. 25, D. C., three or four story 200-bed hospital, 29 and Rudy Sts. **$2,800,000.** CD 12/19/45—ENR 2/14.

★**Wash., Auburn**—School Dist. 408, Auburn election Mar. 4, on special levy school addns. **$1,599,000.** CD 2/19—ENR 5/16.

★**Hawaii**—Hawaii Co., school at Laupahoehoe, **$642,000;** high school at Kohala, **$561,000.**

★**B. C., New Westminster**—Bd. Educ., 6 St., plans by E. Evans & Son, 119 W. Pender St., Vancouver, 30 room Senior High School; 35 room Junior High School and auditorium bldg; 6 room addn. to Lord Tweedsmuir School incl. stadium and athletic center. **$2,200,000.** CD 12/31/43—ENR 1/13/44.

Que., Lachine—City, R. Laberge, comptroller, plans by U. T. Benoit, 477 St. Francois Xavier St., Montreal, 1 story, 58x153 ft., steel, concrete block, municipal garage concrete fdn. A. J. Deslauriers, c/o owner, engr. CD 8/31—ENR 9/13.

COMMERCIAL BUILDINGS

PROPOSED WORK

Ark., El Dorado—Lion Oil Co., El Dorado, modernizing, imprv. exchange office bldg. **$250,000.** Financing provided.

Calif., Long Beach — Ridgewood Heights Inc., c/o H. Gibbs, archt., 441 E. First St., plans 25% completed 2 story, 148 unit, frame, stucco apartment, California Ave. and San Antonio Dr. **$900,000.**

Calif., Los Angeles—Belmar Apartments Corp., c/o H. Gibbs, archt., 441 E. First St., Long Beach, plans 25% completed nine 2 story frame, stucco apartments, Overland Blvd. and Francis Pl. **$600,000.**

Calif., Los Angeles—Southern Calif. Telephone Co., 740 S. Olive St., plans completed, 2 story, bsmnt., steel addn. and third story on bldg., 3434 E. 4 St. **$400,000.** Financing provided.

Conn., Bridgeport — **Musante Berman & Steinberg, Inc.,** 40 Middle St., 8 to 10 story, brick, steel, concrete business bldg., incl. stores and offices, Fairfield Ave. near Middle St. Over **$205,000.**

Conn., Glastonbury—Frank Lanti, Chestnut Hill Rd., plans under way, frame homes on 10 acre site, Chestnut Hill Rd. **$205,000.** Financing provided.

Conn., Hartford—Continental Real Estate, 1026 Main St., plans under way, fifty 1½ story, 6 room frame houses, Tower Avenue. **$400,000.**

Conn., West Haven—West Haven Housing Auth., West Haven, 2 story, 50 family, frame housing. **$250,000.** E. C. Bradley, 85 Whitney Ave., New Haven, archt.

Del., Milford—Schine's Plaza Theatre, c/o Schine Theatre Enterprises, Gloversville, N. Y., plans by J. Eberson, 1560 Broadway, New York, N. Y., theatre. Over **$205,000.** Financing provided.

Del., Wilmington—Braunstein's Inc., 704 Market St., plans by Thalheimer & Weitz, 1315 Walnut St., Phila., Pa., department store. **$500,000.** Financing provided. CD 1/11—ENR 1/24.

★**Del., Wilmington**—North American Mutual Insurance Co., North American Bldg., office bldg. **$1,200,000.** Financing provided.

Del., Wilmington — Temple Beth Sholom Congregation, H. Rubensteim, pres., Equtable Bldg. synagogue and educational bldg. **$300,000.** Financing provided.

D. C., Wash.—River Road United Presbyterian Church, Rev. Dr. Virgil M. Cosby, pastor, 4347 Fessenden St. N. W., plans by G. E. Savage, Witherspoon Bldg., Phila., Pa., church, Sunday School, rectory, etc. Over **$250,000.** Financing provided.

D. C., Wash.—Temple Baptist Church, 10 and North Sts., N.W., plans completed, baptist church, 16 and Juniper Sts. N.W. **$250,000.** A. H. Sonneman, 50 Kennedy Dr., Kenwood, Md., archt.

Fla., Miami—Young Men's Hebrew Assn., 1567 S. W. 5 St., plans by H. Hohauser, 4011 Chase Ave., Miami Beach, Jewish Community Center. **$225,000.**

★**Fla., Miami Beach**—Owner, c/o Henry Hohauser, archt., 4011 Chase Ave., 14 story, 86x128 ft., brick, hotel. Over **$1,000,000.**

Ill., Chicago — American Legion Post 42, R. F. Bradburn, chn., 10036 S. Seeley St., 2 story, brick, concrete, steel community center. **$250,000.**

Ill., Chicago—Ner Tamid Congregation of Northtown, 2754 W. Rosemont Ave., plans by Friedman, Alschuler & Sincere, 28 E. Jackson Blvd., 2 story, brick, stone synagogue and school addn. **$500,000.**

Ind., Greencastle—**DePaw University,** Dr. C. E. Wildman, pres., Greencastle, preliminary plans by McGuire & Shook, 1400-01 Fletcher Trust Bldg., Indianapolis, 4 story memorial student union bldg. **$475,000.** CD 7/13/45—ENR 7/26/45.

Ia., Iowa City—Wesley Foundation, Methodist Church, Iowa City, plans by S. J. & A. Temple, Putnam Bldg., Davenport, memorial student center. **$250,000.** CD 8/3/45—ENR 8/23/45.

Me., Augusta—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., brick, steel, concrete telephone exchange. Over **$205,000.** J. L. Duffy, 50 Oliver St., Boston, Mass., engr.

Me., Waterville—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., brick, steel, concrete telephone exchange. Over **$205,000.** J. L. Duffy, 50 Oliver St., Boston, Mass., engr.

★**Md., Baltimore**—Ambassador Corp., 3945 Greenmount Ave., plans completed by Edward Brown, Ridgmere Apartments, 200 suite apartment. **$1,000,000.** CD 2/27—ENR 3/28.

Mass., Mattapan—City, J. Carroll, chn., Boston Housing Auth., Boston, 6 story bldgs., River St. Over **$205,000.** Financing not provided. Land rights not cleared.

Mass., Worcester—St. Vincent's Hospital, Vernon St., plans by Curtin & Riley, 45 Newbury St., Boston, brick, steel, concrete hospital. Over **$205,000.** Financing not provided.

★**Mo., St. Louis**—Lutheran Hospital, c/o Lutheran Charities Assn. of St. Louis, Rev. E. C. Hefius, supt. Lutheran Hospital, 2646 Potomac St., Zone 18, plans by Freese, Maack & Becker, 705 Olive St., Zone 1, brick concrete, steel, stone 200 bed hospital addn. **$1,500,000.** CD 6/6—ENR 6/27.

N. J., Atlantic City—R. C. Diocese of Camden, Rev. Bartholomew Eustace, Bishop, 721 Cooper St., Camden, plans by Paul C. Reilly, 111 5th Ave., New York, N. Y., children's hospital. **$250,000.** Financing provided.

N. J., Camden—Congregation Sons of Israel, Rabbi H. J. Riff, 1426 Princess Ave., synagogue. Over **$205,000.**

N. J., Ellisburg — Garden State Racing Assoc., Haddonfield Rd. and State Hy. 40, Camden, plans under way, clubhouse and grandstand addns., over **$250,000;** paving, roads, parking spaces, etc., **$100,000;** storm sewer addns., **$50,000;** park lands-aping, grading, etc., **$100,000;** water line addns., appurtenances, **$40,000,** all foregoing Garden State Race Track. Financing provided.

N. J., East Orange—Calvary Baptist Church, 78 N. Clinton St., plans by General Eng. & Constr. Co., N. American Bldg., Broad and Sansom Sts., Phila., Pa., church and Sunday School and rectory. **$250,000.** Financing provided.

N. J., Mays Landing—Atlantic City Racing Assoc., Schwehm Bldg., Atlantic City, plans under way, clubhouse and grandstand addns. over **$250,000;** storm sewers, **$50,000;** park landscaping, grading, etc., over **$100,000;** water line addns., and appurtenances, **$40,000;** paving, roads, and parking areas, **$100,000,** all foregoing Atlantic City Race Track, Atlantic City. Financing provided.

N. J., Oceanport—Monmouth Jockey Club, Oceanport, plans under way, clubhouse and grandstand, addns., over **$250,000;** park landscaping, grading, etc., over **$100,000;** storm sewers, **$50,000;** water line addns., appurtenances, **$40,000;** paving, over **$100,000,** all foregoing Monmouth Race Track. Financing provided.

N. J., Trenton—Wineberg's Dept. Store, 902 S. Broad St., department store addn., alterations. Over **$205,000.** Financing provided.

N. Y., New York—Percy & Harold Uris, 2 Lafayette St., Zone 7, plans under way, 100x105 ft. apartment, Park Ave. and 59 St. Over **$205,000.**

N. C., Belmont—Sacred Heart College & Academy, Belmont, buildings, **$250,000.** Financing not provided.

O., Euclid—St. William's Parish Catholic Diocese of Cleveland, Rev. Edward F. Hoban, N. B. C. Bldg., Cleveland, plans by G. W. Stickle, 2422 Prospect Ave., 1 story, 55x185 ft. brick school and 1 story, 60x125 ft. gymnasium-auditorium bldg. at Lake Shore Blvd and E. 265 St.

O., Springfield—Ohio Free & Accepted Masons, W. W. Carlton, grand master, 3337 Trimble St., Cincinnati, Rickley Memorial Hospital addn. for treatment of mentally ill **$100,000.** Financing provided.

★**Ore., North Bend**—Babbitt & Mercer, Inc., 313 Educational Bldg., Portland, plans completed by J. Lee, c/o owner, 750 one story, bsmnt. houses, incl. roads, sewers, water sys., electric lines, etc. in Bangor subdivision **$5,000,000.** Financing provided.

Pa., Glenside—Owner, c/o Vernon D. Cox, 1530 Chestnut St., Phila., plans by Thomas J. Early, 1701 Walnut St., Phila., shopping center, incl. stores, parking facilities, etc. **$250,000.** Financing provided.

Pa., Mercersburg — **Mercersburg Academy,** Mercersburg, preliminary plans nearing completion by Trautwein & Howard, 1411 Walnut St., Phila., classrooms-library, recitation hall and laboratory bldg. **$450,000.** Financing provided.

Pa., Phila.—Congregation Emanu-El, Rabbi Maxwell Farber, 1524 W. Champlost Ave., plans under way, auditorium and library. **$220,000;** religious school and gymnasium, **$220,000.** Financing provided.

Pa., Phila.—St. Joseph's College, 54 St. and City Line, plans by Emile G. Perrot, 1405 N. 16 St., field house. **$500,000.** Financing not provided.

Pa., Phila.—Temple Sholom, Rabbi Maurice Kliers, Large St. and Roosevelt Blvd., plans by J. Joshua Fish, 2120 Spruce St., Phila., synagogue and community bldg. **$500,000.** Financing not provided.

Tenn., Nashville—First Lutheran Church, c/o Dr. I. W. Gernert, 312 5 Ave. N., plans by Marr & Holman, Stahlman Bldg., church. **$225,000.**

Tex., Abilene—Church of Christ, c/o Rev. E. R. Harper, Abilene, 3 story church. **$210,000.** Financing not provided.

Tex., Dallas—University Park Methodist Church, University Park, c/o Lance Webb, 4024 Caruth St., Church, colonial mold sand brick walls Georgian Colonial architecture concrete and pier fdn. **$300,000.** Financing provided.

★**Tex., Grand Prairie**—Perkins Development Co., Inc., c/o Elbert Perkins, Sunbeam Ave., Dallas, plans under way, 100 dwellings, Hensley Park, **$650,000;** plans 85 dwellings, **$550,000.** Financing provided.

COMMERCIAL BLDGS. (Proposed Work, Cont'd.)

Tex., Houston—Lord's Church, c/o Rev. E. G. Gerhart, 16 Waugh Dr., church. **$215,000.** Financing provided. Site purchased.

Tex., Houston—Pine Forest Country Club, 721 W. 39 St., plans by Harvin C. Moore, 2008 W. Alabama St., country club. **$225,000,** 18 hole golf course, **$100,000.** Financing provided. CD 9/5/45—ENR 9/20/45.

Tex., Kerrville—First Baptist, c/o H. A. Moore, chn. Bd., Kerrville, plans by Easterwood & Easterwood, 33 Bewley Bldg., Fort Worth, church, incl. 1 story sanctuary and 2 story educ. bldg., 164x352 ft., brick, concrete, etc. **$250,000.** Financing provided.

Tex., Pharr—First Baptist Church, Pharr, plans by Will N. Noonan, 729 Travis Bldg., San Antonio, church. **$210,000.** Financing provided.

Tex., San Antonio—V. F. Buchek Co., Majestic Bldg., plans under way residences. **$100,000.** Financing provided.

Tex., San Antonio—G. S. Creless, 1102 Fair Ave., San Antonio, plans completed by Addis Noonan & Assoc., 801 American Hospital & Life Bldg., 50 one story, wood and asbestos siding residences, concrete and post fdn., etc., **$350,000.** Financing provided.

★**Tex., San Antonio**—San Antonio Baptist Assn., Rev. D. D. South, Bedell Bldg., nonsectarian hospital plant. **$2,000,000.** Financing not provided.

Tex., Weslaco—Shepard Yoden & Hall Co., Weslaco, plans under way, residences. **$210,000.** Financing provided.

Wash., Bellevue—O. E. Monohon, c/o O. Dawson, archt., 6421 Latona Ave., Seattle, Zone 5, 52 one story bsmnt., frame homes. **$520,000.** Financing provided.

B. C., West Vancouver—J. Davis, c/o J. A. Rank, British Odeon Theatres Ltd., 2 King St., Toronto, theatre. **$225,000.**

Ont., Fort Erie—Ernest Borm, Fort Erie, **68 residences. About $500,000.**

Ont., Guelph—J. Davis, c/o J. A. Rank, British Odeon Theatres Ltd., 2 King St., Toronto, theatre. **$250,000.**

Ont., Long Branch (Postal Dist. Toronto)—Canadian Legion, c/o C. Goguel, Long Branch, fifty 5-room concrete block homes. **$230,000.**

Ont., Toronto—J. Davis, c/o J. A. Rank, British Odeon Theatres Ltd., 2 King St., Toronto, theatre. **$400,000.**

★**Ont., Toronto**—Salter Const. Co., Ltd., 1351 Kingston Rd., 600 residential units. **About $3,000,000.**

Que., Lachine—Stoney Point Housings, Ltd., 150 39 Ave., Lachine, housing. **$225,000.**

Que., Montreal—Bowerley & Caron, Reg'd, 630 W. Sherbrooke St., dwellings. **$250,000.**

Que., Montreal—Buchesi Institute, Dr. J. A. Jarry, pres., 1464 St. Hubert St., Buchesi Institute addn. St. Hubert and Demontigny Sts. **About $500,000.**

Que., Montreal—United Amusement Corp. Ltd., 5887 Monkland Ave., plans by Luke, Little & Mace, 1410 Guy St., theater and office bldg., Van Horne Ave. **$225,000.**

Que., Sherbrooke—Belle Telephone Co. of Canada, Ltd., 1050 Beaver Hall Hill, Montreal, exchange and offices, King and Camirand Sts. **About $250,000.**

Que., Verdun—J. R. Robillard, 676 Moffatt Ave., completed plans 92 flats, Manning Ave. **About $322,000.**

INDUSTRIAL BUILDINGS

PROPOSED WORK

Ala., Birmingham—PLANT—Southern Natural Gas Co., Watts Bldg., Birmingham, gas compressor plant. **$500,000.** Financing provided.

Ala., Montgomery — PLANT—Dairy Producers, 705 S. McDonough St., Montgomery, plans by Pearson & Tittle, 1st National Bank Bldg., 1 story, 90x200 ft. masonry milk processing and ice cream mfg. plant. **$125,000.**

Ark., Pine Bluff—PLANT—Pine Bluff Chamber of Commerce, c/o Bd. Directors, Pine Bluff, manufacturing plant. **Over $100,000.**

Calif., Los Angeles—WAREHOUSE—California Hardware Co., 500 E. First St., plans by Austin, Field, Fry & Criz, 1151 S. Broadway, 3 story, bsmnt., 136x120 ft., rein.-con. warehouse. **$400,000.**

Calif., Los Angeles—WAREHOUSE—Pan-Pacific Fisheries, Terminal Island, plans 50% completed by J. R. Friend, 556 W. 5 St., San Pedro, 2 story, frame, stucco warehouse. **Over $100,000.**

Calif., Torrance—INDUSTRIAL—Bates Expanded Steel Co., 160 N. La Salle St., Chicago, Ill., plans under way, several industrial bldgs. on 16 acre site, Arlington Ave. and Doniquez St. **Over $500,000.**

★**Colo., Grand Junction**—REFINERY—Co-Operative Refinery Co., c/o Don B. Hibbs, 350 E. Armour St., Kansas City, Mo., 3500 bbl. daily capacity refinery. **$2,750,000.** Financing provided.

Ga., Atlanta—MANUFACTURING—Electric Storage Battery Co., 19 St. and Allegheny Ave., Phila., Pa., mfg. bldg. Over **$250,000.** Financing provided.

Ga., Atlanta—GARAGE—Atlantic Greyhound Lines, H. P. Brawner, vice-pres., Kanawha Valley Bldg., Charleston, W. Va., garage. **$300,000.** Financing provided.

Ga., Augusta—BUS TERMINAL—Atlantic Greyhound Lines, H. P. Brawner, vice-pres., Kanawha Valley Bldg., Charleston, W. Va., bus terminal. **$275,000.** Financing provided.

Ga., Thomaston—PLANT—Knox Corp. P.O. Box 311, plant mfg. prefabricated houses. **$145,000.** Financing provided.

Ga., Waycross—PLANT—John H. Swisher & Son, Inc., 459 E. 16 St., Jacksonville, Fla., plans by George O. Holmes, 2137 River Rd., Jacksonville, Fla., 1 story, 107x243 ft. brick cigar mfg. plant. **$100,000.**

Ill., Chicago — LABORATORY — McGrew Paint & Asphalt Co., 5603 W. 63 St., 1 and 2 story, brick laboratory. **$150,000.**

★**Ill., Robinson**—PLANT ADDNS.—Ohio Oil Co., H. E. Handy, supt., Robinson, plant addns. to increase storage capacity of refinery to 51,500,000 gal. **$1,000,000.**

Kan., Scott City—PLANT, etc.—Kansas-Nebraska Natural Gas Co., Inc., Hastings, natural gas plant imprvs. (Old Tri-City Gas Co. property), **$150,000;** gas pipeline extens., imprvs., **$200,000.** Financing provided.

La., Independence—PLANT—Colonial Cannery, Independence, plans by W. E. Spink, Pere Marguette Bldg., New Orleans, 1 story, 130x200 ft. rein.-con. brick cold storage plant. **$240,993.**

★**Md., Baltimore**—PLANT—The Sun, A. B. Abell Co., Baltimore and Charles Sts., preliminary plans by Palmer, Fisher, Williams & Ness, 1230 St. Paul St., 6 and 10 story, bsmnt., approx. 150x250 ft., brick, steel newspaper plant, Calvert and Center Sts. **$2,500,000.**

Minn., Glencoe—FACTORY—Minnesota Valley Canning Co., Glencoe, corn and pea canning factory, **$290,000.**

★**Miss., Lexington**—COMPRESSOR STATION—Southern Natural Gas Co. Watts Bldg., Birmingham, Ala., compressor station. **$750,000.** Financing provided.

N. J., Bridgeton—WAREHOUSE—Owens-Illinois Co., Bridgeton, plans under way, 1 story, brick, steel, concrete warehouse. **$600,000.** Financing provided. I. W. Reiser, c/o owner, engr.

N. Y., Buffalo—PLANT—National Aniline Div. Allied Chemical & Dye Corp., 1501 S. Park Ave., plant addn. Over **$100,000.** Financing provided. United Engineers and Constructors, Inc., 1401 Arch St., Phila., Pa., consult. engrs. CD 6/21/45—ENR 7/12/45.

N. Y., Long Island City—FILM STORAGE—Paramount Pictures Inc., Paramount Bldg., New York, Zone 18, plans completed by Voorhees, Walker, Foley & Smith, 101 Park Ave., New York, Zone 17, warehouse, 43 Rd. **$375,000.** Financing provided.

★**N. Y., Niagara Falls**—CHEMICAL PLANT—E. I. duPont de Nemours & Co., (Inc.), duPont Bldg., Wilmington 98, Del., plans laboratory and office, power plant, water pumping station, electric substation, etc. on tract east of Gill Creek to manufacture adiponitrile for nylon. **$3,000,000.**

★**N. Y., Schenectady**—PLANT—General Electric Co., River Rd., plans factory to manufacture steam turbines and electric generators. **$20,000,000.**

O., Bellaire—GENERATING STATION—Ohio Pub. Service Co., Hanna Bldg., Cleveland, 100,000 kw. generating station. Financing provided.

O., Chillicothe—PLANT—Chillicothe Paper Co., Chillicothe, paper plant addn. **$118,000.**

★**O., Dayton**—PLANT—Dayton Power & Light Co., Gas & Electric Bldg., power plant on Miami River, 11 mi. south of here, and substation and dam across the river. **$12,000,000.**

O., Lorain—GENERATING UNIT—Ohio Pub. Service Co., Hanna Bldg., Cleveland, 65,000 watt generating unit, addn. to Edgewater plant. Financing provided.

O., Philo—PLANT—Ohio Power Co., Cleveland Ave. S.W., Canton, plant addn. **$150,000.** Financing provided.

★**O., Toledo**—PLANT—Sohio Petroleum Co., c/o G. W. Hanneken, vice pres., Otter Creek Rd. and East Bay Shore, plans completed, lubrica oil plant, **$8,000,000;** oil separation unit, **$1,000,000.** Financing provided.

Ore., North Portland—PROCESSING—Case-Swayne Co., P.O. box 488, 75 x 340 ft. processing bldg., and 75 x 340 ft. warehouse, frame. **$125,000.**

Ore., Portland—PLANT—Case-Swayne Co., Box 488, North Portland, plans completed fruit and vegetable cannery addn., 3910 Suttle Rd. **$125,000.** Financing provided. Legal obstacles to be overcome.

Ore., West Salem—MACHINE SHOP, etc.—Blue Lake Producers Co-operative, 376 Patterson St., plans by L. P. Bartholomew, Salem, 29 x 88 ft. machine shop, 60 x 88 ft. receiving dock, and 1 story, 154 x 240 ft., masonry warehouse. **$116,208.** Financing provided.

Pa., Harmony Twp. (near Ambridge)—MILL—A. M. Byers Co., 1 story, 100x315 ft. steel frame corrugated steel siding mill. **$103,500.**

Pa., Marcus Hook—REFINERY—Sun Oil Co., 1608 Walnut St., Phila., plans under way, repairing refinery. **$300,000.** Financing provided.

Pa., Phila.—PLANT—Franklin Sugar Refining Co., foot of Reed St., plans under way plant expansion, alterations. **$100,000.** Financing provided.

Pa., Phila.—PLANT—Penn Sugar Refining Co., foot of Shackamaxon St., plans under way plant expansion, alterations. **$100,000.** Financing provided.

Pa., Reading—TERMINAL and BARN FACILITIES—Reading Street Railway Co., 11 and Exeter Sts., plans by Gilbert Assoc., Inc., 412 Washington St., terminal and barn facilities addns. **$169,900.** Financing provided.

S. C., Columbia—WAREHOUSE—Binswanger & Co., 655 Union St., Memphis, Tenn., glass storage warehouse. **$100,000.** Financing provided.

S. C., Spartanburg—PLANT—Draper Corp., Spartanburg, textile mfg. plant. **$115,000.** Financing provided.

★**Tenn., Chattanooga**—COMPRESSOR STATION—Southern Natural Gas Co., Watts Bldg., Birmingham, Ala., compressor station. **$1,250,000.** Financing provided.

Tenn., Chattanooga — REPAIR — Southern Railway Sys., E. Bennett, ch. eng. M. W. & Structures (Central Lines), Knoxville, Zone 24, 132 x 294 ft. repair and maintenance bldg. **$900,000.** Financing provided.

★**Tex., Dallas**—PRINTING PLANT, etc.—A. H. Belo & Co., Lamar and Commerce Sts., plans by George L. Dahl, Southland Life Bldg., 4 upper floors of proposed 5 story, bsmnt., 193 x 303 ft. concrete, cut stone, steel printing plant and office bldg., air-conditioning. **$1,000,000.** Financing provided. CD 1/9—ENR 1/17.

Tex., Houston—AUTO PARKING and STORAGE—First National Bank Bldg., 201 Main St., 2 story, bsmnt., auto parking and storage bldg. **$205,000.** Financing provided. Robert J. Cummins, Bankers Mtg. Bldg., consult engr.

Tex., Houston — WAREHOUSE — Republic Supply Co., Petroleum Bldg., plans under way, 1 story, prefabricated steel frame warehouse, concrete slab fdn., etc. **$180,000.** Financing provided.

Tex., Houston—PLANT—T. H. Sullivan & Co., 2626 Main St., 100x150x100 ft. L shaped plant. **$250,000.** Financing provided. Site purchased.

Tex., Kilgore—PLANT—Magnolia Petroleum Co., Magnolia Bldg., Dallas, imprv. gasoline plant. **$200,000.** Financing provided.

Tex., San Antonio—MOTOR—Chrysler Motor Co., c/o Ray Spencer of Spencer Motors, 1623 Broadway, plans under way, motors bldg incl. service shop, display, storage, paint shop, etc. **$125,000.** Financing provided.

Tex., San Antonio—REPAIR SHOP—San Antonio Transit Co., Transit Tower, plans completed by Atlee B & Rob. M. Ayers, Transit Tower, San Antonio, Tex., and Allen & Kelley, Architects & Builders Bldg., Indianapolis, Ind., bus mechanical repair shop bldg. **$500,000.** Financing provided.

Tex., San Antonio—SERVICE and SHOP STATION—Sinclair Refining Co., 1305 S. Laredo St., super-service and shop stations, S. Pine and E. Commerce Sts.; Fredericksburg Rd. and Hildebrand St.; Cincinnati and Zaragoza Sts.; Nogalitos and Roslyn Sts.; S. Flores and Compton Sts.; S. Presa and Hampshire Sts.; Melrose and McCullough Sts.; W. Commerce and Zarzamora Sts. **$480,000.** Financing provided.

Tex., Texarkana—PLANT—Tex-Ark Rock Wool Corp., Texarkana, plans under way rock wool mfg. plant. **$200,000.** Financing provided. Site purchased.

Wash., Endicott — ELEVATOR — Endicott Elevator Co., Endicott, replacing coacrete elevator. **$150,000.**

Wash., Endicott—GRAIN ELEVATOR—Endicott Wheat Growers, Endicott, grain elevator. **$122,680.**

Wis., Combined Locks—POWER PLANT and TRANSMISSION LINE—Kaukauna Utilities Comn., Kaukauna, 1 story, 30x125 ft. power plant and 2 mi. transmission lines, coffer dam work. **$750,000,** incl. equip. Holland, Ackerman & Holland, 20 W. Wacker Dr., Chicago, Ill., consult. engrs.

★**B. C., Horne Lake**—PLANT—B. C. Cement Co. Ltd., Bamberton, plant and townsite to employ and house 200 to 250 men. **$2,000,000.**

★**Ont., Port Arthur**—WORKHOUSE—Saskatchewan Pool Terminals Ltd., Port Arthur, plans completed workhouse with 400,000 bu. capacity. About **$1,500,000.** CD 8/31/45—ENR 9/13/45.

★**Ont., Toronto**—PLANT—Lever Bros., 339 Eastern Ave., C. A. Massey, pres., plant. About **$6,000,000.** Webster Eng. Corp., 137 Wellington St. W., engr.

Proposal Advertisements see pp. 26 and 27

OFFICIAL PROPOSALS

Official notices of bids wanted on construction and related work, equipment and material for government, state, municipal departments and private enterprises

RATE: THE RATE FOR OFFICIAL PROPOSAL ADVERTISING IS 65 CENTS PER LINE (OR FRACTION) PER INSERTION

COPY RECEIVED UP TO 3:00 P. M. MONDAY FOR ISSUE OUT THURSDAY SUBJECT TO SPACE OPEN FOR LAST MINUTE ADS

SEND COPY TO OFFICIAL PROPOSAL DIVISION, ENGINEERING NEWS-RECORD, 330 W. 42ND ST., NEW YORK 18, N. Y.

OFFICIAL PROPOSALS

Bids: November 13, 1946 (304)

State Highway Work

STATE DEPARTMENT OF PUBLIC WORKS
BUREAU OF CONTRACTS & ACCOUNTS
ALBANY, N. Y.

Sealed proposals will be received by Henry A. Cohen, Director, Bureau of Contracts & Accounts, 14th Floor, The Governor Alfred E. Smith State Office Building, Albany, N. Y., until ten-thirty o'clock A.M., eastern standard time, on WEDNESDAY, NOVEMBER 13, 1946, for the construction and reconstruction of highway projects in the following counties:

County	Deposit for plans	Bid deposit	Type	Miles	Dept. estimate
CONSTRUCTION					
Bronx	$20	$49,000	Concrete Rigid Frame Bridges, 62' and 2 @ 39' spans; Alterations Bridge 6; Grading & Structures	0.28	$883,000
RECONSTRUCTION					
Clinton	20	95,000	Conc. 8" thk., 20'-22' wid. Misc. Work; Three Rigid Frame Bridges, spans 32', 32' & 45' each	16.15	1,746,000
Genesee & Monroe	10	33,000	Top Course, Asphalt Conc. Opt.; Conc. 24' wdt., 9" thk.	6.33	604,000
Kings	20	50,000	Pile Foundations, Abutments and Walls	0.86	938,000
Madison	20	150,000	Conc. 8" thk., 48'-64' wid.; Misc. Work; Br. Conc. Slab, 28.4' span	12.69	2,691,000
Nassau	5	18,000	Top Course, Asphalt Conc. Opt. Misc. Work	1.49	315,000
Ulster	5	400	Erecting Woven Wire Fence and Gates	...	7,000
Westchester	5	350	Tree Pruning and Tree Removing	...	6,000

Maps, plans, specifications, and estimates may be obtained at the office of the Department of Public Works, bureau of Contracts & Accounts, Albany, N. Y., and at the office of the District Engineers in whose district the roads are located. Names and addresses of the District Engineers will be given upon request, and may be seen at the office of the State Department of Public Works, State Office Building, Room 898, Worth & Center Streets, New York City.

The deposit for Plans and Proposal Forms for each contract containing 1 to 15 sheets is $5.00; 16 to 30 sheets, $10.00; over 30 sheets, $20.00. A refund will be made in full to bidders for return of one set, in good condition, within 30 days of award, or rejection of bids; refund for all other sets in good condition, similar period, will be 50% of deposit.

Special attention of bidders is called to "General Information for Bidders" in the proposal, specifications, and contract agreement, and to the special provisions applying to projects financed with federal funds. Proposal for each contract must be submitted in a separate sealed envelope with the name and number of the contract plainly endorsed on the outside of the envelope. Each proposal must be accompanied by cash, draft or certified check payable to the order of "State of New York, Commissioner of Taxation & Finance" for the sum as specified in the advertisement and the proposal. The retention and disposal of the bidding check, the execution of the contract and bonds shall conform to the provisions of the Highway Law, as set forth in "Instructions to Bidders."

When optional types are permitted on contracts with federal funds, bidders must state in the space provided in the proposal the exact designation of the optional type upon which the proposal is predicated.

Minimum Wage Rate per hour for above work shall be as follows:

County	Skilled Labor	Intermediate Grade Labor	Unskilled Labor
Bronx	$1.20	$1.20	$1.20
Clinton	.95	.90	.90
Genesee	1.15	1.00	1.00
Kings	1.20	1.20	1.20
Madison	1.00	.95	.95
Monroe	1.15	1.00	1.00
Nassau	1.40	1.25	1.20
Ulster	1.25	1.15	1.15
Westchester	1.37½	1.15	1.12½

Bids: November 19, 1946 (300)

Completion of Delaware Aqueduct

COMPLETION OF DELAWARE AQUEDUCT
CONTRACT 388

SEALED BIDS will be received by the Board of Water Supply, at its offices, thirteenth floor, 120 Wall street, New York City, until 11:00 A.M., Eastern Standard Time, on Tuesday, November 19, 1946, for Contract 388, for construction and installations to complete structures at fifteen localities along the portion of the Delaware aqueduct about 67 miles long from Shaft 4 in the Town of Gardiner, Ulster county, to Shafts 1A at Hill View reservoir in the City of Yonkers, Westchester county, New York, all as set forth in the specifications.

The work to be done under this contract includes installing in the shafts, chambers and other structures of the aqueduct, equipment and materials to be furnished by The City; furnishing and installing other equipment and materials in these structures; unwatering the aqueduct tunnels for inspection; removing the temporary doors, windows and window closures from the chamber and other superstructures along the aqueduct and installing the permanent doors and windows; constructing electric transmission lines and concrete roads and completing the grading, seeding and grassing in areas adjacent to a number of the chambers, and performing other work incidental to or in connection with that mentioned above.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn and made payable to the order of the Comptroller of The City of New York, in the amount of one hundred thousand dollars ($100,000.00), for the proper execution of the contract.

At the above place and time the bids will be publicly opened and read. Sets of pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, requirements as to surety, etc., can be obtained at the office of the Secretary at the above address, upon application in person or by mail, by depositing the sum of five dollars ($5.00) in cash or its equivalent for each set. Within 30 days following the award of contract or rejection of bids, the full amount of such deposit will be refunded for each set submitted as a bid and a refund of four dollars ($4.00) will be made for each other set returned in acceptable condition. Arrangements will be made whereby prospective bidders desiring blueprints of the contract drawings for their own use may secure same, the cost thereof to be paid by them. For further particulars, apply at the office of the Chief Engineer at the above address.

IRVING V. A. HUIE, President. HENRY HESTERBERG, RUFUS E. McGAHEN, Commissioners, Board of Water Supply. RICHARD H. BURKE, Secretary.

Bids: November 26, 1946 (307)

Pavement of the Maine Turnpike

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
Section 1
KITTERY TO PORTLAND
PAVEMENT

Sealed bids for construction of alternate types of roadway pavements, (Portland Cement Concrete or Asphaltic Concrete) and appurtenances for Section 1 of the Maine Turnpike will be received at the offices of the Maine Turnpike Authority, Kennebunk, Maine, until 10:00 A. M., Eastern Standard Time, and then publicly opened and read.

The overall length of Section 1 is about 47.2 miles. Section 1 is divided into halves, each about 23.6 miles in length, and the work will be let under one or two contracts. The division point is located at station 1203+00 near the town of Kennebunk.

Each bid shall be accompanied by a Certified or Cashier's check on a solvent bank, payable to the treasurer of the Authority, in an amount not less than three per cent (3%) of the total of the bid, which will be forfeited as liquidated damages if the bidder should fail to execute any contract awarded to him and to furnish performance bond within ten days after such an award; otherwise checks will be returned to bidders. Where bids are made both on separate halves and on the entire work, a single deposit check based on the largest amount of work bid upon will be sufficient.

Copies of the plans and specifications are on file and may be examined at the office of the Maine Turnpike Authority, Kennebunk, Maine, and at the offices of the Consulting Engineers, 921 Walnut Street, Kansas City 6, Missouri, 55 Liberty Street, New York 5, New York, and Kennebunk, Maine. Copy of plans and specifications may be secured from the Turnpike Authority by depositing $60.00 for plans and specifications *for each half*. Any bidder who has made such a deposit may secure extra blue print copies of any drawing upon payment of 25c per copy and of specifications upon payment of $2.00 per copy. All plans and specifications shall be returned to the Turnpike Authority and there will be refunded a total of $30.00 out of each $60.00 deposit, and the entire deposit will be refunded to bidders receiving contracts. There will be no refunds for payments made for extra prints or specifications.

Bids shall be based upon the contract documents and plans, and shall be made by filling out a Proposal form, executing it in proper manner, and delivering in a sealed envelope.

The Authority reserves the right to reject any or all bids and to make awards as may be most advantageous to the Authority, and without technicalities as to procedure.

MAINE TURNPIKE AUTHORITY
Joseph T. Sayward, Chairman
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
Consulting Engineers

(Continued on page 27)

OFFICIAL PROPOSALS

Bids: December 6, 1946 (305)

Sewer Improvements

The City of Bloomington, McLean County, Illinois, will receive sealed bids for A Proposed Trunk Sewer Rehabilitation and Proposed Relief Sewers Improvement until 7:30 o'clock P.M. Central Standard Time (C.S.T.) on the 6th day of December 1946, at the office of the City Clerk in the City Hall in the City of Bloomington, Illinois, at which time and place all bids will be publicly opened and read aloud.

The project consists of the rehabilitation of present trunk sewers and the construction of twelve miles of additional relief sewers ranging in diameter from 12 inches to 90 inches and rectangular concrete box sewers 9' x 7' in section. The project is divided into twelve divisions of work. The contractor may bid any individual division, any combination of divisions or the project in its entirety. The estimated cost of the project is $2,300,000.

The Contract Documents, including plans and specifications, are on file at the office of the City Clerk of the said City of Bloomington, Illinois, at the City Hall in said City.

Copies of the documents may be obtained by depositing fifty dollars ($50.00) with the said City Clerk for each set of documents so obtained. Copies of the documents may also be obtained from Warren & Van Praag, Inc., 447 Standard Office Building, Decatur, Illinois, Consulting Engineers for said City. The amount of the deposit for one set of documents will be refunded to each actual bidder who returns the plans and documents in good condition, within 10 days after the opening of bids. Thirty dollars ($30.00) will be refunded for each of all other sets of documents so returned.

A certified check or bank draft on a responsible solvent bank, or a satisfactory bid bond executed by the bidder and an acceptable surety company payable to the City of Bloomington, Illinois, Mark B. Hayes, Mayor, or Government Bonds or cash, in an amount not less than five per cent (5%) of the bid shall be submitted with each bid.

The successful bidder will be required to furnish a satisfactory performance bond in the full amount of the bid or proposal.

No bid shall be withdrawn after the opening of bids without the consent of the said City for a period of thirty (30) days after the scheduled time of closing bids.

The said City of Bloomington, Illinois reserves the right to reject any or all bids and to waive any informalities in bidding.

November 1, 1946

CITY OF BLOOMINGTON, ILLINOIS
Mark B. Hayes, Mayor
Porter C. Noble, Clerk.

Bids: November 14, 1946 (298)

Sewer Construction

PORT WASHINGTON SEWER DISTRICT, PORT WASHINGTON, NEW YORK.

Sealed proposals for furnishing all material and doing all work necessary to complete the construction of about 38,000 feet of vitrified clay sewers, all as shown on the plans together with the necessary branches, house connections to property lines, manholes, flush tanks, connections to existing sewers, and other necessary appurtenances will be received by the Board of Sewer Commissioners of the Port Washington Sewer District, at their office in Port Washington, New York, until 8 p. m., November 14th, 1946, at which time and place the proposals will be publicly opened and read.

Notice to Bidders, Forms of Proposal and Contract, Plans and Specifications can be obtained at the office of the Board of Sewer Commissioners, at Port Washington, and at the office of Clarence MacCallum, Consulting Engineer, at 27 William Street, New York, N. Y., on the dates of October 25 to November 14 inclusive, upon the payment of $20.00 cash, of which $10.00 will be refunded if the plans are returned complete and in good order within five days after opening or bids. Each bid must be accompanied by certified check of the bidder to the order of the Board of Sewer Commissioners, Port Washington, N. Y., for the sum of $15,000.

The checks of unsuccessful bidders will be returned within ten days after making the awards.

The Commissioners reserve the right to reject any or all bids and to waive any informalities in any or all of the bids received and to accept any bid which they deem to be most favorable to the interest of the District.

PORT WASHINGTON SEWER DISTRICT
BOARD OF SEWER COMMISSIONERS.
Fred A. Thatcher,
Secretary.

Bids: November 18, 1946 (303)

Removal of Piles and Cribbing

The Delaware River Joint Commission
Removal of Piles and Cribbing
Pier 11½ North Delaware Avenue
Philadelphia, Pennsylvania

Sealed bids will be received for removal of Piles and Cribbing, Dredging and building Bulkhead at Pier 11½ North Delaware Avenue, Philadelphia, Pennsylvania, to be identified as Contract No. 2-B, at the office of the Secretary of The Delaware River Joint Commission, Administration Building, Bridge Plaza, Camden, New Jersey until 1:30 P.M. Eastern Standard Time, Monday, November 18, 1946 and then and there will be publicly opened and read.

A more complete description of the work and full information for bidders are given in the Contract Documents and Specifications for this contract which may be obtained upon a deposit of $10.00 which will be remitted upon receipt of bid, or the return in good condition of the copies so taken within thirty days after the opening of bids.

Each proposal must be accompanied by a certified or cashier's check in the sum of $5,000.00 payable to The Delaware River Joint Commission and the Surety's consent must be shown. The bidder to whom the contract is awarded will be required to furnish a Performance and Labor and Materialmen's Bond in the sum of 100 percent.

The Commission will afford prospective bidders an opportunity to inspect the work to be done.

The right is reserved to reject any or all bids.

THE DELAWARE RIVER JOINT COMMISSION
JOSEPH K. COSTELLO,
SECRETARY.

Bids: November 18 1946 (302)

Cased Well

Village of Harriman
Orange County, N. Y.

Sealed bids for a contract for a 250 gallon per minute cased well of guaranteed capacity, with a motor-driven deep-well pump and house, for the water supply system for the Village of Harriman Water District in the County of Orange will be received by the Village Board of Harriman at the office of the Village Clerk until 8 o'clock p. m. on Monday, November 18, 1946, and then at said office, publicly opened and read aloud.

The Information for Bidders, Form of Bid, Form of Contract, Plans, Specifications and Form of Bid Bond and Performance Bond may be examined at the Office of the Village Clerk of the Village of Harriman, New York, and at the Office of E. I. McCaffery, Consulting Engineer, 216 Albany Avenue, Kingston, N. Y., and copies thereof obtained at the office of the Village Clerk or E. I. McCaffery aforesaid, upon payment of $10.00 for each set. Any bidder, upon returning such set promptly and in good condition, will be refunded his payment, and any non-bidders upon so returning such set will be refunded $5.00.

The Village Board reserves the right to waive any informalities in or to reject any or all bids.

A Water guarantee Bond for a face value of $15,000.00 will be required.

Each bidder must deposit with his bid security in an amount of not less than five per centum (5%) of the base bid in the form and subject to the conditions provided in the Information for Bidders.

No bidder may withdraw his bid within 15 days after the actual date of the opening thereof.

John C. Lee—Mayor
Village of Harriman

Dated: October 1st, 1946

November 26, 1946 (306)

Construction of Water Line

OFFICE OF THE CITY RECORDER
Provo City, Utah

October 30, 1946

Sealed bids or proposals will be received at this office until Tuesday at 10:30 a.m., November 26, 1946, which will then be publicly opened and read, for the furnishing and laying of about 17,210 feet of 48-inch pipe line, and the laying of about 1160 feet of 20-inch pipe line with the necessary appurtenances, and the erection of two weir houses, according to the plans and specifications on file in the City Engineer's office.

The Contract Documents, Instructions to Bidders, Specifications and forms for Contract and Bond, together with plans may be obtained after Monday, November 4, 1946, at the office of the City Engineer. The deposit for the Contract Documents is $10.00. Upon the return of the Contract Documents in good and acceptable condition, this deposit will be refunded.

Each bidder must submit with his bid a certified check, draft or bid bond drawn to and made payable to Provo City for $20,000.00.

No bidders may withdrawn his bid for at least thirty (30) days after the scheduled closing time for the receipt of bids.

The right is reserved to reject any and all bids and waive defects.

By order of the Board of Commissioners, Provo, Utah.

I. G. BENCH
City Recorder

Published in The Daily Herald and The Sunday Herald October 31, 1946; November 1, 3, 10, 17, 20, 1946

Published in The Salt Lake Tribune November 1, 2, 3, 10, 17, 20, 1946.

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Official Proposal Division
ENGINEERING NEWS-RECORD
New York City

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POSITIONS VACANT

WANTED—ENGINEERS experienced in the design of sewers, sewage treatment plants and water treatment plants. State qualifications, experience and salary requirements. P-787, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

PARK ENGINEER, for design and preparation of detail plans, specifications and estimates for projects, including buildings, water supply sewage disposal, roadways, drainage etc. Field reconnaissance and inspection. P-105, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ENGINEER-ESTIMATOR wanted, Plumbing, Heating, Air Conditioning. Firm located in Penna. College background desirable but not absolutely necessary. Permanent position. Salary $5000.00 to start. State age, education, experience in first letter. Send photo. P-970, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

WANTED: Foreman, experienced on foundations, and concrete work for railroad and highway bridges. Work in Middle West. State age, experience, references, and salary requirements. P-119, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

A MICHIGAN CONSTRUCTION Machinery Distributor representing Thew, Worthington, and Euclid, wants a good experienced parts man to organize and manage Parts Department. A good job for the right man. Write us giving age, experience, and any other general information. P-121, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

STRUCTURAL ENGINEER—Civil, graduate, some engineering experience in Structural Design, preferably heavy reinforced concrete, foundation and marine construction. Permanent type position—New York City—with established firm. Opportunity for advancement. P-122, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER Wanted: General engineering, office and field. Steady work, vacation—sick time. Department of Public Works, Hudson, New York

EXCELLENT OPPORTUNITY—for a trained man of specialized experience to initiate a national selling program and assume complete supervision of marketing a new line of Welding Fittings for an old, established, prominent manufacturer of Pipe Couplings. Give full details in the first letter—to LEM, Dresser Manufacturing Division, Bradford, Penna.

WANTED: Instructors to teach structural design and building equipment courses to students in Schools of Architecture. P-103, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

OFFICE ENGINEER Wanted—Experienced in estimating, purchasing, plant layout, some design and thorough knowledge of engineering construction office and field management for the construction of industrial buildings, chemical and power plants. State qualifications, experience and salary requirements for New York City location. P-139, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

STRUCTURAL ENGINEER, familiar with Bridge Design. Two structural draftsmen. State qualifications, salary required and date available. P-143, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER for recently organized consulting office. Beginners or experienced. Desirous of setting up system where compensation is related to effort. Opportunity for veterans. John Cunning, Mansfield, Ohio.

STRUCTURAL DESIGNER with 5 or 6 years structural design experience and capable of handling indeterminate structures. Location Mid-Manhattan. Write P-147, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y., or call Murray Hill 5-5335.

POSITIONS WANTED

ATTENTION: Equipment or Material manufacturers-Distributors; Engineer-Estimator, 34, experienced in all types building, state highway, and heavy construction also two years equipment rating and interchangeability studies for national concern covering all types of equipment. Desires position as Sales manager or Salesman with reliable company, will locate anywhere—write or wire PW-129, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONTRACTING ENGINEER. Industrial Building, Construction or Design now covering N. Y. N. J. Engineer, experienced Estimator. N. Y. City area only. PW-131, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER with several years progressive construction and contracting experience and now holding responsible position with large contracting firm is looking forward to joining a going concern or starting a new construction company in the middle west. Will exchange confidential information with existing concern or prospective partner with capital or know how. PW-120, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

TECHNICAL SERVICE engineer, 26, married, Civil Engineer, (B.S.—1941), 3 years heavy construction experience. Past 2 years with cement company and building maintenance materials manufacturer. Sales, sales promotion, complaint handling, technical consultations. Desire connection with firm requiring ambitious, resourceful, personable, technically trained individual for sales promotion, service engineering, or advertising. Office or field. N. Y. C. only. Travel metropolitan NYC only. Present salary $3900, but position requires excessive undesirable traveling. Available January 1st. PW-125, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONSTRUCTION SUPERINTENDENT 45 Estimating experience, 20 years large building projects of all types, masonry and reinforced concrete specialist with cost conscious following. References. PW-137, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ATTENTION CONTRACTORS: Project manager, young, experienced in commercial, industrial, residential building, state highway and heavy construction desires positions as manager, superintendent, estimator or purchasing agent with growing company—will locate anywhere — Good References — Write PW-138, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

FIELD ENGINEER—age 40—18 years diversified experience. Thoroughly qualified to direct field Layout work and incidental Engineering requirements. Good draftsman and take off man. Also experienced Surveyor — Topo. — Property Line — subdivision etc. California, southern states preferred. Consider foreign assignment. PW-130, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ESTIMATOR—Civil Engineer, age 28, 7 years general building experience. Some experience and knowledge of quantity take-off and pricing. Desire responsible position in General Contractor's office. PW-140, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONSTRUCTION and Maintenance Engineer —Graduate Civil Engineer, age 36, white, married, Registered Professional Engineer. Twelve years general professional engineering and construction supervision experience, (Field and Office). Five years as Chief Engineer at large Army Post of 50,000 population. Engineering and management responsibilities for operation, construction and maintenance of water, sewage, highway, airport, railroad, central heating plants, buildings and structures. Thoroughly experienced in Preventive Maintenance organization and procedures. Qualified to accept engineering and management responsibilities for municipality or industry as Chief Engineer or technical advisor. Presently employed as Engineering advisor and consultant on Airport maintenance, construction and planning. Will accept position offering maximum security and salary of $6000 to $8000 depending on location and conditions of employment. PW-144, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

POSITIONS WANTED

CIVIL ENGINEER: Gradate, 10 years experience field layout (transit and level) with inspection and supervision of construction on rolled-fill dams, concrete and steel structures, pumping stations, industrial plants, airports, pipe lines, harbors, and levees. A-1 record. Some office and accounting experience. Desires responsible connection where a quiet hard working dependable man is needed. Anywhere. Southern States preferred. Available December 1. PW-145, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER 26 years experience in engineering and construction work desires permanent position as Office Engineer with engineering firm, contractor or industrial plant. Experienced in organizing and managing engineering and contractors office also familiar with payrolls and accounting. PW-146 Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

PART-TIME WORK WANTED

STRUCTURAL STEEL Shop Drawings, Industrial building plans, Concrete design, by Registered Engineers. Georgia Detailers Association. Box 191, East Point, Ga.

DESIGNER—Stress Analyst—M.S. in C. E. 6 years experience—desires part time free lance work—New York area. P.T.W.W.-141, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

To Employers Who Advertise for Men:

The letters you receive in answer to your advertisements are submitted by each of the applicants with the hope of securing the position offered.

When there are many applicants it frequently happens that the only letters acknowledged are those of promising candidates. Others do not receive the slightest indication that their letters have even been received, much less given any consideration. These men often become discouraged, will not respond to future advertisements and sometimes even question if they are bona fide.

We can guarantee that *Every Advertisement Printed in the Searchlight Section Is Duly Authorized.* Now won't you help keep our readers interested in this advertising by acknowledging every application received, even if you only return the letters of unsuccessful applicants to them marked, say, "Position filled, thank you." If you don't care to reveal your identity mail them in plain envelopes.

We suggest this in a spirit of helpful co-operation between employers and the men replying to Positions Vacant advertisements.

Classified Advertising Division

McGRAW-HILL PUBLISHING COMPANY, INC.

"Put Yourself in His Place"